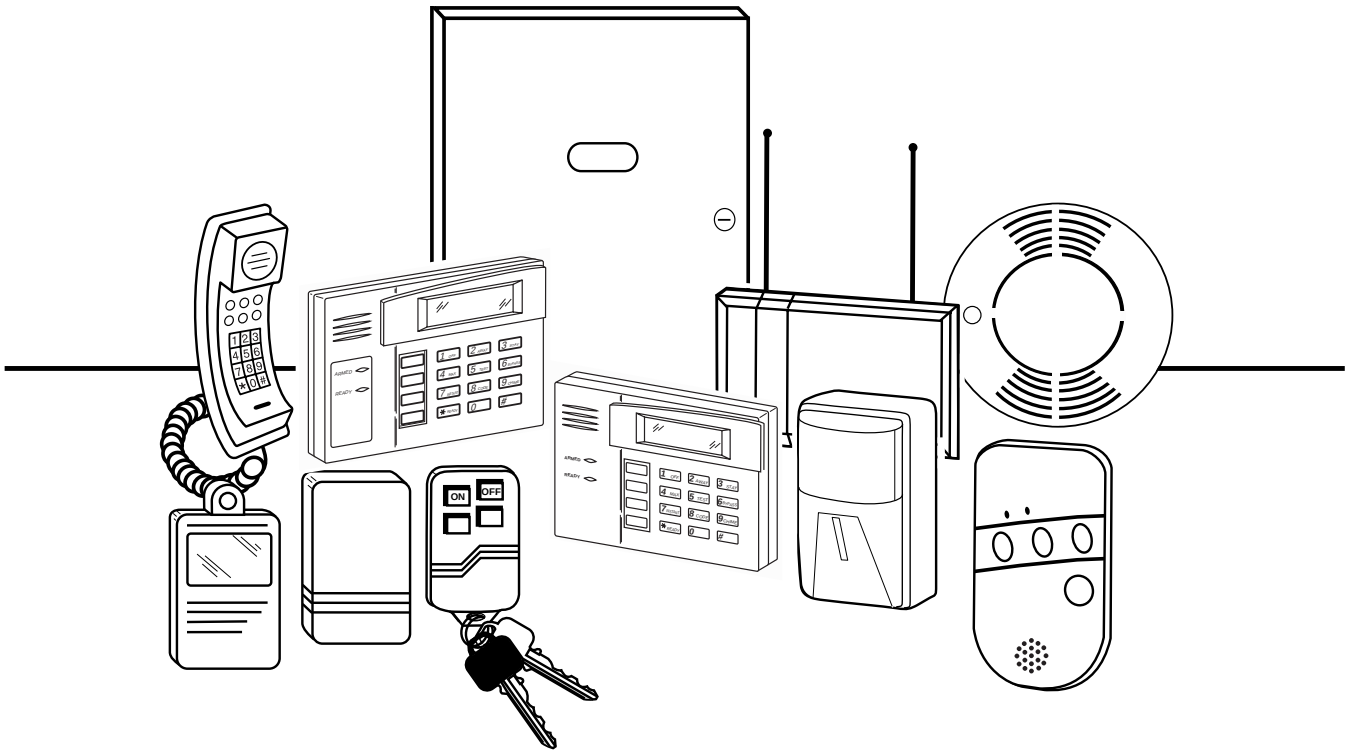
VISTA-15PMT
VISTA-20PMT

Programming Guide



This control is a certified SIA-compliant control that meets SIA specifications for False Alarm Reduction.

Monitronics™

K5305-1MTPRV9 3/11 Rev. A - SIA

Reference: MTV15P, MTV20P

TABLE OF CONTENTS

PROGRAMMING MODE COMMANDS 3
DATA FIELD PROGRAMMING FORM 4
CONFIGURABLE ZONE TYPES WORKSHEETS 13
∗56 ZONE PROGRAMMING MENU MODE 14
∗58 EXPERT ZONE PROGRAMMING MODE 15
WIRELESS KEY PROGRAMMING TEMPLATES 16
∗57 FUNCTION KEY PROGRAMMING 16
OUTPUT DEVICE PROGRAMMING GENERAL INFORMATION (*79/*80 Menu Mode) 17
∗79 RELAY/POWERLINE CARRIER DEVICE PROGRAMMING MENU MODE 17
∗80 OUTPUT FUNCTION MENU MODE 18
∗81 ZONE LIST MENU MODE 19
∗82 ALPHA DESCRIPTOR MENUMODE 20
ALPHA VOCABULARY LIST (For Entering Zone Descriptors) 21
SETTING SCHEDULES 22
AVS SYSTEM ENABLE and QUICK PROGRAMMING COMMANDS 23
SETTING THE REAL-TIME CLOCK 2
∗29 COMMUNICATION DEVICE MENU MODE (Pass-Through Programming) 24
ZONE TYPE DEFINITIONS 25
UL NOTICES 26
SIA QUICK REFERENCE GUIDE 26
UPLOADING/DOWNLOADING VIA THE INTERNET 23
WORKSHEET for SCHEDULES 27
WORKSHEET for ∗56 ZONE PROGRAMMING 28
WORKSHEET for ∗57 FUNCTION KEY PROGRAMMING 29
WORKSHEET for ∗79 RELAY/POWERLINE CARRIER DEVICE PROGRAMMING 29
WORKSHEET for ∗81 ZONE LIST PROGRAMMING 29
WORKSHEET for ∗80 OUTPUT FUNCTION PROGRAMMING 30
TABLE OF DEVICE ADDRESSES 31
5800 SERIES TRANSMITTER INPUT LOOP IDENTIFICATION 31

SETTING THE REAL-TIME CLOCK

IMPORTANT: The Real-Time Clock must be set before the end of the installation.

NOTE: All partitions must be disarmed before the date/time can be set.

1. Master Code + [#] + [6] [3]
2. Press [∗] when the time/date is displayed.
   A cursor appears under the first digit of the hour.
   To move cursor ahead, press [∗]. To go back, press [#].
   - Enter the 2-digit hour setting.
   - Enter the 2-digit minute setting.
   - Press [1] for PM or [2] for AM.
   - Enter the last two digits of the current year.
   - Enter the 2-digit month setting.
   - Enter the 2-digit day setting.
3. To exit, press [∗] when cursor is at the last digit, or wait 30 seconds.

PROGRAMMING MODE COMMANDS

TO ENTER PROGRAMMING MODE (using an alpha keypad connected to the control)**:**

A. POWER UP, then press [✱] and [#] at the same time, within 50 seconds of powering up (this method must be used if ✱98 was used to exit program mode). **OR**

B. Initially, key: Installer Code (4 + 1 + 1 + 2) plus 8 + 0 + 0.

PROGRAMMING MODE COMMANDS

Task	Command/Explanation
Go to a Data Field	**Press [✱] + [Field Number], followed by the required entry.**
Entering Data	When the desired field number appears, simply make the required entry. When the last entry for a field is entered, the keypad beeps three times and automatically displays the next data field in sequence. If the number of digits that you need to enter in a data field is less than the maximum digits available (for example, the phone number fields *41, *42), enter the desired data, then press [✱] to end the entry. The next data field number is displayed.
Review a Data Field	**Press [#] + [Field Number].** Data will be displayed for that field number. No changes will be accepted in this mode.
Deleting an Entry	**Press [✱] + [Field Number] + [✱].** (Applies only to fields ✱40 thru *46, *94, and pager fields)
Initialize Download ID	**Press ✱96.** Initializes download ID and subscriber account number.
Reset Factory Defaults	**Press ✱97.** Sets all data fields to original factory default values.
Zone Programming	**Press ✱56.** Zone characteristics, report codes, alpha descriptors, and serial numbers for 5800 RF trans.
Function Key Programming	**Press ✱57.** Unlabeled keypad keys (known as ABCD keys) for special functions
Zone Programming (Expert Mode)	**Press ✱58.** Same options as *56 mode, but with fewer prompts. Intended for those familiar with this type of programming, otherwise *56 mode is recommended.
Output Device Mapping	**Press ✱79.** Assign module addresses and map individual relays/powerline carrier devices
Output Programming	**Press ✱80.** 4229 or 4204 Relay modules, Powerline Carrier devices, or on-board triggers
Zone List Programming	**Press ✱81.** Zone Lists for relay/powerline carrier activation, chime zones, pager zones, etc.
Alpha Programming	**Press ✱82.** Zone alpha descriptors
IP/GSM Programming	**Press ✱29.** For programming the IP/GSM options.
Exit Program Mode with installer code lockout	**Press ✱98.** Exits programming mode and *prevents* re-entry by: Installer Code + 8 + 0 + 0. To reenter programming mode, the system must be powered down, then powered up. Then use method A above. See field *88 for other *98 Program mode lockout options.
Exit Program Mode	**Press ✱99.** Exits programming mode and *allows* re-entry by: Installer Code + 8 + 0 + 0 or method A above.
Scheduling Mode	**Enter code + [#] + 64.** Create schedules to automate various system functions.
Site-Initiated Download	**Installer code + [#] + 1** (perform while system is disarmed and in normal mode)

AVS QUICK PROGRAMMING COMMANDS (for AAV sessions using the AVS system)

For controls with the following firmware revision levels, these commands automatically configure the control for AVS operation. VISTA-15PMT = version 6.0 or higher; VISTA-20PMT = version 7.0 or higher

- **installer code + [#] + 03**: enable AVS operation
- **installer code + [#] + 04**: enable AVS operation and enable panel sounds on the AVST speaker
- **installer code + [#] + 05**: remove all programming options set by [#] + 03 quick command
- **installer code + [#] + 06**: remove all programming options set by [#] + 04 quick command

Refer to the AVS SYSTEM ENABLE and QUICK PROGRAMMING COMMANDS section for details on the specific options that are set with each command, depending on the control used.

To select the AAV session communication path (phone line/communication device), see field ✱55 Dynamic Signaling Priority.

To enable AAV operation, use ✱91 Options field (option 4).

SPECIAL MESSAGES

OC = OPEN CIRCUIT (no communication between Keypad and Control).

EE or **ENTRY ERROR** = ERROR (invalid field number entered; re-enter valid field number).

After powering up, **AC, dl** (disabled) or "**Busy Standby vx.x** (firmware revision) **Dl** will be displayed after approximately 4 seconds. This will revert to a "**Ready**" message in approximately 1 minute, which allows PIRS, etc. to stabilize. You can bypass this delay by pressing [#] + [0].

NOTE for CANADIAN PANELS: Power up time is 2 minutes, and Contact ID report code 305 System Reset is sent if the [#] + [0] command is not performed before the 2 minutes expires.

If **E4** or **E8** appears, more zones than the expansion units can handle have been programmed. The display will clear after you correct the programming.

IMPORTANT: The Real-Time Clock must be set before the end of the installation. See procedure in the Setting the Real-Time Clock section on the previous page.

DATA FIELD PROGRAMMING FORM

Entries apply to both the VISTA-15PMT and VISTA-20PMT controls, except entries shown in dashed boxes apply only to the VISTA-20PMT (partition entries) and are not applicable to the VISTA-15PMT.
Entry of a number other than one specified will give unpredictable results. Values shown in brackets are factory defaults.
SIA Features: The VISTA-15PMT and VISTA-20PMT are certified SIA-compliant controls that meet SIA specifications for False Alarm Reduction. Fields marked with heavy borders are related to SIA requirements and have entries or operation different than non SIA-compliant controls.

∗20 Dealer Installer Code [4112] | | | |

4 digits, 0000–9999 This code can perform all system functions except cannot edit the central station reporting phone numbers (fields *41, *42). For security purposes, the factory default installer code should be changed.

∗21 Quick Arm Enable [1,1] | |

0 = no; 1 = yes Part. 1 Part.2
If enabled, users can press the [#] followed by an arming key to arm the system instead of using a security code. The security code is always needed to disarm the system.

∗22 RF Jam Option [0] |

0 = no RF Jam detection
1 = send RF Jam report
If enabled, a report is sent if the system detects an RF jamming signal.
UL: must be 1 if wireless devices are used

∗23 Quick (Forced) Bypass [0,0] | |

0 = no quick bypass UL: must be "0" Part. 1 Part. 2
1 = allow quick bypass (code + [6] + [#])
Zones bypassed by this function will be displayed after the bypass is initiated.

∗24 RF House ID Code [00,00,00] | | | |

00 = disable wireless keypads Part. 1 Part. 2 Common
01–31 = using 5827, 5827BD or 5804BD keypad
The House ID identifies receivers and wireless keypads. If a 5827 or 5827BD Wireless Keypad or 5804BD Transmitter is being used, a House ID code **must** be entered and the keypad set to the same House ID. You can assign RF house ID for each partition

∗26 Chime By Zone [6, 7] | |

KP (Keypad) Sound Enables 1 2

Entry 1
0 = no "entry 1" keypad trouble sounds, AND no chime by zone (keypad chimes on fault of any entry/exit or perimeter zone when chime mode is on)
1 = Chime by Zone enabled (list chime zones on zone list 3 using *81 Menu mode)
2 = Communication device (LRR) Trouble sounding enabled (for communication devices such as 7845GSM, 7845i-GSM, GSMV)
4 = System Low Battery sounding enabled
7 = select all entry 1 options

Entry 2
0 = no "entry 2" keypad trouble sounds
1 = RF Supervision sounding enabled
2 = RF Low Battery sounding enabled
4 = RF Jam sounding enabled
7 = select all entry 2 options

For each entry, enter the sum of the desired options. Example Entry 1: for Chime by Zone and System Low Battery sounding, enter 5. To enable all options, enter 7.
Keypad (KP) Trouble Sounding can be enabled/disabled for the conditions listed in each entry.

∗27 Powerline Carrier Device (X–10) [0] |

House Code

0 = A; 1 = B; 2 = C; 3 = D; 4 = E; 5 = F; 6 = G; 7 = H; 8 = I; 9 = J; #10 = K; #11 = L; #12 = M; #13 = N; #14 = O; #15 = P
Powerline Carrier devices require a House ID, identified in this field. Program Powerline Carrier devices in interactive modes ∗79, *80 and *81.
UL: not for fire or UL installations

∗28 Access Code for Phone Module [00] | |

00 = disable; (Partition 1 only)
1st digit: enter 1–9; 2nd digit: enter # + 11 for "✱", or # + 12 for "#".
You must assign a 2-digit access code for the 4286 Phone Module, if used. Example: If desired access code is 7∗, then 7 is the first entry, and [#] + 11 (for ∗) is the second entry.
NOTE: A 0 in either digit disables the phone module.
UL: must be "00" for UL Commercial Burg. installations

∗29 Enable IP/GSM – Communication Device Menu Mode (pass-through programming)

This is a Menu Mode command, not a data field, for programming IP/GSM communication device options. See ∗29 Menu Mode section later in this document.

∗31 Single Alarm Sounding Per Zone [0] |

0 = "alarm sounding per zone" will be the same as the "number of reports in armed period" set in field *93 (1 if one report, 2 if 2 reports, unlimited for zones in zone list 7)
UL: must be "0"
SIA: Must be "0" if *93 Reports in Armed Period is set to "2" report pairs.
1 = one alarm sounding per zone
If enabled, limits alarm sounding on the bell output to once per zone per armed period.

∗32 Fire Alarm Sounder Timeout [0] |

0 = sounder stops at timeout;
1 = no sounder timeout UL: must be "1" for fire install.
This control complies with NFPA requirements for temporal pulse sounding of fire notification appliances. Temporal pulse sounding for a fire alarm consists of the following: 3 pulses – pause – 3 pulses – pause – 3 pulses.

∗33 Alarm Sounder (Bell) Timeout [1] |

0 = none; 1 = 4 min; 2 = 8 min; 3 =12 min; 4 = 16 min;
UL: For residential fire alarm installation, must be set for a minimum of 4 min (option 1); for UL Commercial Burglary installations, must be minimum 16 min (option 4)
This field determines whether the external sounder will shut off after time allotted, or continue until manually turned off.

∗34 Exit Delay [60,60] | | |

45 - 96 = 45 - 96 secs; 97 = 120 secs Part. 1 Part. 2
NOTE: Entries less than 45 will result in a 45-second delay. UL installations: For UL Commercial Burglar Alarm and UL Residential Burglar Alarm installations with line security, total exit time must not exceed 60 seconds.
Common zones use part. 1 delay.
The system waits the time entered before arming entry/exit zones. If the entry/exit door is left open after this time expires, an alarm will occur. Common zones use same delay as partition 1.

∗35 Entry Delay #1

[30,30] Part. 1 Part. 2

30 - 96 = 30 - 96 seconds
97 = 120 secs
98 = 180 secs
99 = 240 secs

Upon entering, the system must be disarmed before the time entered expires, otherwise it sounds an alarm.
NOTE: Entries less than 30 will result in a 30-second delay.
Common zones use same delay as partition 1.
For UL Residential Burglary Alarm installations, must be set for a maximum of 30 seconds; entry delay plus dial delay should not exceed 1 min. For UL Commercial Burglar Alarm, total entry delay may not exceed 45 seconds.

∗36 Entry Delay #2

[30,30] Part. 1 Part. 2

See *35 Entry Delay 1 for entries.

∗37 Audible Exit Warning

N/A

Feature always enabled; field removed in this control.
Warning sound consists of slow continuous beeps until the last 10 seconds, and then it changes to fast beeps. Sound ends when exit time expires.

∗38 Confirmation Of Arming Ding

[0,0] Part. 1 Part. 2

0 = no
1 = yes (wired keypads and RF)
2 = yes, RF only (except 5827, 5827BD)
Confirmation of arming is 1/2-sec external sounder "ding."
If 1 selected, ding occurs when closing report is sent if open/close reporting is enabled, or at the end of Exit Delay.
If 2 selected, ding occurs upon reception of the wireless arming command.
UL: must be "1" for UL Commercial Burglar Alarm inst.

∗39 Power Up In Previous State

N/A

Feature always enabled; field removed in this control.
When the system powers up armed, an alarm will occur 1 minute after arming if a zone is faulted. Note that if the previous state was armed Away or Stay, the system ignores sensor changes for 1 minute, which allows sensors such as PIRs to stabilize.

DIALER PROGRAMMING (∗40 – ∗42)
Do not fill unused spaces. Enter 0–9; #+11 for '∗'; #+12 for '#'; #+13 for a 2-second pause. If fewer than the maximum digits entered, exit the field by pressing [∗]. The next data field number is displayed.

∗40 PABX Access Code or Call Waiting Disable

Enter up to 6 digits. To clear entries, press ∗40∗. If call waiting is used, enter call waiting disable digits "∗ (#+11) 70" plus "# + 13" (pause) and also set Call Waiting Disable option in field *91.

NOTES: 1. The call waiting disable feature cannot be used on a PABX line.
2. Using Call Waiting Disable on a non-call waiting line will prevent successful communication to the central station.

∗41 Primary Phone No.

Can be changed by corporate installer code only. Enter up to 20 digits. To clear entries, press ∗41∗ .

∗42 Secondary Phone No.

Can be changed by corporate installer code only. Enter up to 20 digits. To clear entries, press ∗42∗ .

NOTE: Entry of a number other than one specified will give unpredictable results.
For fields *43 thru *46: Enter 0–9; #+11 for B; #+12 for C; #+13 for D; #+14 for E; #+15 for F. Enter [∗] as the fourth digit if a 3-digit account number (for 3+1 dialer reporting format) is used. Enter 0 as the first digit of a 4-digit account number for Nos. 0000-0999. Exit field by pressing ∗ if only 3 digits are used. E.g., For Acct. **B234**, enter: #+11 2 3 4 .

∗43 Partition 1 Primary Acct. No.

[FFFFFFFFF]

Enter 4 or 10 digits, depending on selection in *48 Report Format. See box above. To clear entries, press ∗43∗.

∗44 Partition 1 Secondary Acct. No.

[FFFFFFFFF]

Enter 4 or 10 digits, depending on selection in *48 Report Format. See box above. To clear entries, press ∗44∗.

∗45 Partition 2 Primary Acct. No.

[FFFFFFFFF]

Enter 4 or 10 digits, depending on selection in *48 Report Format. See box above. To clear entries, press ∗45∗.

∗46 Partition 2 Secondary Acct. No.

[FFFFFFFFF]

Enter 4 or 10 digits, depending on selection in *48 Report Format. See box above. To clear entries, press ∗46∗.

∗47 Phone System Select

[3]

If Cent. Sta. *IS NOT* on a WATS line:
0=Pulse Dial; 1=Tone Dial;
if Cent. Sta. *IS* on a WATS line:
2 = Pulse Dial ; 3 = Tone Dial
Select the type of phone service for the installation.

∗48 Report Format

[7,7] Primary Secondary

0 = 3+1, 4+1 ADEMCO L/S STANDARD
1 = 3+1, 4+1 RADIONICS STANDARD
2 = 4+2 ADEMCO L/S STANDARD
3 = 4+2 RADIONICS STANDARD
5 = 10-digit ADEMCO CONTACT ID® REPORTING
6 = 4+2 ADEMCO EXPRESS
7 = 4-digit ADEMCO CONTACT ID® REPORTING
8 = 3+1, 4+1 ADEMCO L/S EXPANDED
9 = 3+1, 4+1 RADIONICS EXPANDED
Select the format for primary/secondary phone numbers

∗49 Split/Dual Reporting

[0]

0 = Standard/backup reporting only (all to primary)

Primary Phone No.	2nd Phone No.
1 = Alarms, Restore, Cancel	Others
2 = All except Open/Close, Test	Open/Close, Test
3 = Alarms, Restore, Cancel	All
4 = All except Open/Close, Test	All
5 = All	All

∗50 Burglary Dialer Delay [2,0] ☐ ☐

Delay Time Delay Disable

Delay Time:
1 = 15 seconds; 2 = 30 seconds; 3 = 45 seconds
Provides delay of "BURGLARY ALARM" report to the central station, which allows time for the subscriber to avoid a false alarm transmission. This delay does not apply to zone type 24 alarms (silent burglary) or to 24-hour zone types 6, 7, and 8 (silent panic, audible alarm, auxiliary alarm), which are always sent as soon as they occur.

Delay Disable:
0 = use delay set in entry 1
1 = dial delay disabled for zones listed in zone list 6 (use zone list 6 to enter those zones that need dial delay to be disabled; these zones ignore the setting in entry 1)

UL: Dial delay plus entry delay must not exceed one minute; use zone list 6 to disable dial delay from appropriate zones, if necessary.

∗53 SESCOA/Radionics Select [0] ☐

0 = Radionics (0-9, B-F); enter "0" for all non-SESCOA formats
1 = SESCOA (0-9 only reporting)

∗54 Dynamic Signaling Delay [4] ☐

Select delay from 0 to 225 secs, in 15-sec increments.
0 = no delay (both signals sent);
1 = 15 secs; 2 = 30 secs, etc.
Intended for reporting via a communication device on the ECP bus (LRR). This field lets you select the time the panel should wait for acknowledgment from the first reporting destination (see ∗55) before it attempts to send a message to the second destination. Delays can be selected from 0 to 225 seconds, in 15-second increments. This delay is per message. If 0 is entered in this field, the control panel will send redundant reports to both Primary Dialer and LRR.

UL: If using line security, must be "0; Reports will be sent to both the dialer and the communication device.

∗55 Dynamic Signaling Priority / AAV Path Select [0] ☐

0 = Primary Dialer first / AAV via phone line
1 = Communication Device (LRR) first / AAV via communication device path (see AAV paragraph below)

This field selects the primary communication path for reporting (dialer or communication device) of primary phone number events† (see ∗49 Split/Dual Reporting) **and** selects the communication path used for AAV sessions (phone line or communication device path). Use ∗29 IP/GSM menu mode to enable the communication device being used.

† Reports intended for the secondary phone number are not sent via the communication device.

For Dynamic Signaling Priority:
Select the initial reporting destination for messages:
Primary Dialer First selected (*0*):
- If acknowledged before delay expires (see ∗54), then message will not be sent via LRR.
- If not acknowledged before delay expires, message is sent to both the Primary Phone No. and via LRR.

Communication Device (LRR) First selected (*1*):
- If acknowledged before delay expires, then message will not be sent to the primary dialer.
- If not acknowledged before delay expires, message is sent to both the Primary Phone No. and via LRR.

For AAV Path Select:
- If using the UVS system or AVS system with non-ECP connection, option 0 must always be used.
- If using the AVS system with ECP connection, either option (0 or 1) may be used, but note the following:

IMPORTANT: If option "1" is selected, a 2-way voice (AAV) device compatible with the communication device path must be used (ex. GSMV communicator). When selected, AAV sessions **always** occur via the GSMV communicator, even if reporting reverts to phone line backup due to GSMV communicator path reporting failure.

For UL Commercial Burglary installations that use a DACT and LRR, this field must be "0".

∗56, ∗57, ∗58 Menu Modes

These are Menu Mode commands, not data fields, for Zone Programming, Function Key Programming, and Expert Mode Zone Programming respectively. See respective sections later in this document.

TO PROGRAM SYSTEM STATUS, & RESTORE REPORT CODES (∗59 thru ∗68, *70 thru ∗76, and ∗89):
For 3+1 or 4+1 Standard Format: Enter a code in the *first* box: 1–9, #+10 for 0, #+11 for B, #+12 for C, #+13 for D, #+14 for E, #+15 for F.

A 0 (*not* #+10) in the *first* box will disable a report. A 0 (*not* #+10) in the *second* box will result in automatic advance to the next field.
For Expanded or 4+2 Format: Enter codes in *both* boxes (1st and 2nd digits) for 1–9, 0, or B–F, as described above.

A 0 (*not* #+10) in the *second* box will eliminate the expanded message for that report. A 0 (*not* #+10) in *both* boxes will disable the report.
For Ademco Contact ID® Reporting: Enter any digit (other than 0) in the *first* box, to enable zone to report (entries in the *second* boxes are ignored).

A 0 (*not* #+10) in the *first* box disables the report.
UL: Report codes are required in fields *61, *65, *71, *72, for UL Commercial Burglar Alarm installations.
Report codes are required in fields *60, *62, *63, *64, *70, *73, *74, *75, *76, for UL Commercial Burglar Alarm installations and required for Residential Fire Alarm installations

SYSTEM STATUS REPORT CODES (∗59–∗ 68)

∗59 Exit Error Alarm Report Code [1] ☐

SIA NOTE: Always enabled. Sends both exit error **and** zone alarm reports in the event of an exit error condition. Also see field *69.
After arming the system, entry/exit and interior zones remaining open after exit delay expires cause an alarm sound at the keypad and external sounder (keypad also displays "EXIT ALARM"), and entry delay begins. Disarming before the end of the entry delay stops the alarm sounding and no message is sent to the central station. The keypad will display "CA" (fixed-word) or "ALARM CANCELED" (alpha display).
If the system is not disarmed before entry delay expires, an "EXIT ALARM" message and zone alarm message will be sent to the central station. The keypad will display "EA" (fixed-word) or "EXIT ALARM" (alpha display), and alarm sounding continues until the system is disarmed (or timeout occurs).
An Exit Alarm condition will also result if a fault occurs in an exit or interior zone within 2 minutes following the end of the exit delay, and an "EXIT ALARM" message will be sent to the central station (also see field *69 Recent Closing report). With Contact ID format, the message will contain the zone number and error code 374 ("ALARM–EXIT ERROR").

∗60 Trouble Report Code [10] ☐☐

Sent if a zone has a trouble condition.
See UL System Reporting Note above *59.

∗61 Bypass Report Code [00] ☐☐

Sent when a zone is manually bypassed.
See UL System Reporting Note above *59.

∗62 AC Loss Report Code [10] ☐☐

Timing of this report is random with up to a 4-hour delay. If AC restores before the report goes out, there is no "AC LOSS" report.
See UL System Reporting Note above *59.

∗63 Low Bat Report Code [10] ☐☐

Sent when the system's backup battery has a low-battery condition. See UL System Reporting Note above *59

✱64 Test Report Code [10] [|]

Use Scheduling mode to set periodic test reports, or use the following key commands:
installer code +[#] + [0] + 0 = test report sent every 24 hours
installer code +[#] + [0] + 1 = test report sent once per week
installer code +[#] + [0] + 2 = test report sent every 28 day
Each mode sets schedule 32 (VISTA-20PMT) or schedule 08 (VISTA-15PMT) to the stated repeat option; first test report sent 12 hours after command†.
See System Reporting UL Note above *59.
† **NOTE:** Make sure the Real-Time Clock is set to the proper time **before** entering the test report schedule command to ensure that test reports are sent when expected. (see Setting the Real-Time Clock section)

✱65 Open Report Code [0,0,0] [ ] [ ] [ ]

Part. 1 Part. 2 Common
Sent upon disarming the system in the selected partitions.
See UL System Reporting Note above *59.

✱66 Arm Away/Stay Rpt Code

[ ] [ ] [ ] [ ] [ ] [ ] [0,0,0,0,0,0]
Away Stay Away Stay Away Stay
Part. 1 Part. 2 Common
This option allows for independent programming of Away and Stay reports for each partition, including the common lobby.
NOTE: "OPEN" reports are not sent if the associated closing report is not enabled.

✱67 RF Trans. Low Bat Report Code [10] [|]

Sent when a transmitter low-battery condition exists.
UL: must be enabled if wireless devices are used

✱68 Cancel Report Code [10] [|]

SIA NOTE: Report enabled.
Sent upon disarming the system after an alarm condition was reported.

✱69 Recent Closing Report Code [11] [|]

SIA NOTE: Always enabled. Sends both recent closing **and** zone alarm reports if fault occurs within 2 min. after exit time expires. Also see field *59.
Similar to the Exit Error condition described in field *59, but occurs if any burglary zone is faulted within two minutes **after** the initial exit delay expires. Disarming the system within the two minutes stops the alarm sound and displays "ALARM CANCELED " or "CA" and faulted zone number. No message is sent to the Central Monitoring Station.
If the system is not disarmed within two minutes, the alarm sound continues and a "recent closing" and a "zone alarm" message are sent to the Central Monitoring Station (after dial delay expires).

RESTORE REPORT CODES (✱70 – ✱76)

✱70 Alarm Restore Rpt Code [0] [ ]

NOTE: Alarm restore signals indicate that respective alarm zone(s) are no longer faulted. Alarm restore reports are sent to the central station at bell timeout (field *33), if the zone(s) in alarm are actually restored to a non-faulted state at that time. Otherwise, alarm restore report(s) for respective alarm zones are sent when the system is disarmed.

If **Reports Per Armed Period Per Zone** (*93) is also programmed, the system will report alarm and restore codes as described above until the "Reports Per Armed Period" count is reached. Disarming and rearming will reset the "Reports Per Armed Period" count.

✱71 Trouble Restore Rpt Code [10] [|]

Sent when a trouble in a zone is restored and code + OFF performed. See UL System Reporting Note above *59.

✱72 Bypass Restore Rpt Code [00] [|]

Sent when a zone that has been bypassed is unbypassed.
See UL System Reporting Note above *59.

✱73 AC Restore Rpt Code [10] [|]

Sent after AC power has been restored after an AC power outage.
See UL System Reporting Note above *59.

✱74 Low Bat Restore Rpt Code [10] [|]

Sent after a system low-battery condition is restored to normal.
See UL System Reporting Note above *59.

✱75 RF Trans. Lo Bat Rst Rpt Code [10] [|]

Sent when a transmitter's low battery condition is restored (i.e., new battery installed).
UL: must be enabled if wireless devices are used. See UL System Reporting Note above *59.

✱76 Test Restore Rpt Code [10] [|]

Sent when the Test mode is exited or upon timeout (4hrs).
See UL System Reporting Note above *59.

OUTPUT AND SYSTEM SETUP (✱77 – ✱93)

✱77 Daylight Saving Time [3][11] [|]

Start\End Month
0 = Disabled
1-12 = January-September (1 = Jan, 2 = Feb, etc)
#+10 = October; #+11 = November; #+12 = December
Enter the start and end month for daylight saving time, if applicable to the region.

✱78 Daylight Saving Time [2][1] [|]

Start\End Weekend
0 = disabled; 1 = first; 2 = second; 3 = third; 4 = fourth;
5 = last; 6 = next to last; 7 = third to last
Enter the start and end weekend for daylight saving time, if applicable to the region.

✱79, ✱80, ✱81, ✱82 Menu Modes

These are Menu Mode commands, not data fields, for Output Device Mapping, Output Programming, Zone List Programming, and Alpha Programming respectively. See page 2 and their respective sections in the Installation and Setup Guide for procedures.

✱84 Auto Stay Arm [MTV15P = 1; MTV20P = 1] [ ]

0 = no
1 = partition 1 only; 2 = partition 2 only; 3 = both partitions
If enabled, the system will automatically change AWAY mode to STAY mode if the entry/exit door **is not** opened and closed within the exit delay time after a user arms in AWAY mode from a wired keypad (non-RF device). An Opening report followed by an Armed Stay report is sent to the Central Station.
If the door **is** opened and closed within the exit delay period, the system remains in AWAY mode.
Any RF device that arms the system AWAY overrides this feature and the system remains armed AWAY.

✱85 Cross Zone Timer [0] [ ]

This option not for use in UL installations.
(assign cross zones on zone list 4, using *81 Menu mode)

0 = 15 seconds	6 = 2-1/2 min	#+12 = 8 min
1 = 30 seconds	7 = 3 min	#+13 = 10 min
2 = 45 seconds	8 = 4 min	#+14 = 12 min
3 = 60 seconds	9 = 5 min	#+15 = 15 min
4 = 90 seconds	#+10 = 6 min	
5 = 2 minutes	#+11 = 7 min	

NOTE: Cross zoning takes effect only after Exit Delay expires. Sets the maximum amount of time in which two cross zones must be tripped in an armed system to send an alarm message to the Central Station. If only one cross zone is tripped during this time, a trouble message (CID code 380) for that zone is sent to the Central Station.

∗86 Cancel Verify Keypad Display [1] ☐

0 = no; 1 = yes

This feature causes a "**ALARM CANCELED"** display on the LCD keypad under the following conditions:

- After the kissoff of the cancel message to the Central Station, indicating a successful transmission.
- When an alarm is successfully canceled before the Central Station received the Alarm message. E.g., if an alarm is incorrectly triggered and the user presses code + OFF before the dial delay time has expired, the message will never go out to the CS.
- When the Cancel report is not enabled and the system is disarmed:
  a. **before** dialer delay expires (alarm report not sent) message "Alarm Canceled" is displayed.
  b. **after** dialer delay expires message "Alarm Canceled" is not displayed.

∗87 Misc. Fault Delay Time [0] ☐

(used with Configurable Zone Types "digit 6")

0 = 15 seconds	6 = 2-1/2 min	#+12 = 8 min
1 = 30 seconds	7 = 3 min	#+13 = 10 min
2 = 45 seconds	8 = 4 min	#+14 = 12 min
3 = 60 seconds	9 = 5 min	#+15 = 15 min
4 = 90 seconds	#+10 = 6 min	
5 = 2 minutes	#+11 = 7 min	

UL: may only be used on non-burglar alarm/ non-fire alarm zones when used in fire and/or UL burglar alarm installation

Used with zones assigned to a configurable zone type with fault delay on (configurable zone type digit "6"), and sets a zone response time of 15 seconds to 15 min. It can be assigned to zones with sensors that provide a trouble indication when an oil tank is low, or similar applications for critical condition monitoring where non-alarm response is desired.

∗88 Program Mode Lockout Options [0] ☐

0 = standard *98 installer code lockout (reentry only by [∗] + [#] within 50 seconds after power up)

1 = lockout [∗] + [#] reentry after *98 exit (reenter via installer code or downloader only)

2 = lockout all local programming after *98 exit (reentry via downloader only)

This table summarizes the Program Mode Lockout options:

Exit Command	*88 Entry	Reentry By: Installer	Power-up†	Downloader
*99	n/a	yes	yes	yes
*98	0	no	yes	yes
*98	1	yes	no	yes
*98	2	no	no	yes

† pressing [∗] + [#] within 50 seconds of power up

∗89 Event Log Full Report Code [00] ☐☐

See box above field *59 for report code entries.

If an Event Logging selection is made in field ∗90, a message can be sent to the central station receiver when the log is 80% full. If the log becomes full, new messages overwrite the oldest messages in the log.

∗90 Event Log Enables [15] ☐

NOTE: System messages are logged when any non-zero entry is made. To select all options, enter #15.

0 = None

1 = Alarm/Alarm Restore

2 = Trouble/Trouble Restore

4 = Bypass/Bypass Restore

8 = Open/Close. *Example:* To select "Alarm/Alarm Restore", and "Open/Close", enter 9 (1 + 8);

This system can record various events in a history log (VISTA-20PMT = 100 events; VISTA15PMT = 50 events). At any time, the downloader operator can then upload the log and view or print out all or selected categories of the log, or can clear the log. Event log can also be viewed at an alpha keypad. The display/printout at the central station will show the date, time, event, and description of the occurrences.

Data Entry Example: To select Alarm/Alarm Restore" and "Open/Close", enter 9 (1+ 8); to select all events, enter #15.

NOTE: System messages are logged when any non-zero entry is made.

∗91 Option Selection / Remote Interactive Services (RIS) Enable [8, 0] ☐ ☐ (1 2)

Entry 1: Options

0 = None

1 = Bell Supervision Processing

4 = AAV UL: must use ADEMCO UVCM module

8 = Exit Delay Restart/Reset †† UL: must be disabled

#+12 = AAV and Exit Delay Restart/Reset

SIA Guidelines: Exit Delay should be enabled.

Entry 2: Call Waiting Disable / RIS Enable

0 = call waiting not used

1 = call waiting disable digits (*70) entered in field *40; (when selected, the system dials the entry in field *40 only on alternate dial attempts; this allows proper dialing in the event call waiting service is later canceled by the user).

2 = RIS (Remote Interactive Services) enabled

3 = Call Waiting disable and RIS enabled

IMPORTANT: AAV should not be used when Paging or Alarm Reports are sent to a secondary number unless the monitoring zone option is used (which pauses calls). Otherwise, the call to the secondary number by the communicator after the alarm report will prevent the AAV from taking control of the telephone line, and the AAV "Listen in" session cannot take place.

††"Exit Delay Restart/reset" option allows use of the [∗] key to restart the exit delay at any time when the system is armed STAY or INSTANT. This feature also enables automatic exit delay reset, which resets exit delay if the entry/exit door is re-opened and closed before exit delay time expires after arming AWAY. Automatic Exit Delay Reset occurs only once during an armed AWAY period.

Remote Interactive Services (RIS) Enable: This option enables enhanced Remote Interactive Services (RIS), if supported by the communication service in use.

∗92 Phone Line Monitor Enable [0,0] ☐ ☐

Entry 1: (1 2)

0 = disabled, 1-15 = 1 min - 15 min

(#+10 = 10 min; #+11 = 11 min; #+12 = 12 min; #+13 = 13 min; #+14 = 14 min; #+15 = 15 min)

Entry 2:

0 = Keypad display when line is faulted

1 = Keypad display plus keypad trouble sound

2 = Same as "1", plus programmed output device STARTS. If either partition is armed, external sounder activates also.

NOTE: Output Device must either be programmed to be STOPPED in field ✱80 or STOPPED by Code + # + 8 + output number.

Entry 1: Sets the length of time a phone line fault must remain after detected before the second digit option is activated.

Entry 2: Selects the desired phone line fault response. Option 2 may be used even if a relay unit or Powerline carrier device is not connected to the control. Programmed Output Device must either be programmed to be STOPPED in field ∗80 or STOPPED by entry of [security code] + [#] + 8 + device number. Partition in ∗80 should be set to "0," for STOP.

UL: Field *92 must be enabled for fire alarm installations, UL commercial burglar alarm installations and UL residential burglar alarm installations.

If the control unit is used on a UL commercial burglar alarm system which requires 2 methods of remote communication, then the control unit's DACT and the other method of signal transmission must monitor each other against communication failure and line fault. The fault must be received and annunciated within 200 seconds of its occurrence.

∗93 Reports In Armed Period [1,0] ☐ ☐

Per Zone (Swinger Suppression) Restrict Report Pairs | Unlimited Reports

Restrict Report Pairs:
1 = 1 report pair; 2 = 2 report pairs
NOTE: If restricting report pairs, *70 Alarm Restore Report Code must be enabled.

Unlimited Reports Enable:
0 = restrict reports to the setting in entry 1
1 = unlimited reports for zones listed in zone list 7; (use zone list 7 to enter those zones that require unlimited reporting; these zones ignore the setting in entry 1)

Selection limits the number of alarm/alarm restore message pairs per zone sent to the CS in an armed period. Swinger suppression applies to burglary zones only.

DOWNLOAD INFORMATION (∗94, ∗95)

∗94 Download Phone No. [18006821690]

Enter up to 20 digits, 0–9; #+11 for '∗'; #+12 for '#'; #+13 for a 2-second pause. Do not fill unused spaces. If fewer than 20 digits, exit field by pressing ∗. To clear entries from field, press ∗94∗.

UL: Up/downloading via phone line may be performed only if a technician is at the site.
Up/downloading via the Internet has not been evaluated by UL.

∗95 Ring Count For Downloading [15] ☐

NOTE: Do not enter "0" if using 4286 Phone Module.
0 = Disable Station Initiated Download;
1–14 = number of rings (1–9, # +10 =10, # +11 =11, # +12 =12, # +13 =13, # +14 =14);
15 = answering machine defeat (# +15 =15).
Refer to the chart below and program accordingly.

phone module	answer machine	down-loading	Set field ∗95 to…
yes	no	no	1-14 (not 0)
yes	yes	no	greater than rings set on answer machine (e.g., if ans. machine is 4 rings, set this field to 5). This allows access to the phone module if the answer machine is off.
yes	no	yes	1-14 (not 0)
yes	yes	yes	15 (bypasses answer machine†)
no	no	no	0
no	yes	no	0
no	no	yes	1-14
no	yes	yes	15

† **NOTE:** If "15" is entered to bypass an answering machine, and a 4286 Phone Module is included in the system, you should note the following:
When calling in from an off-premises phone, the user should make the initial call, allow 1 or 2 rings only, then hang up, then call again. The phone module will now seize the line, and 2 long tones sound, followed by the usual voice prompt for the access code. If this procedure is not followed, phone module operation will not be possible.

∗96, ∗97 Initialize/Reset Defaults
This is a command, not a data field.

∗98, *99 Exit Commands
This is a command, not a data field.

PAGER OPTIONS (∗160- ∗172)

The system can send various reports to several pagers (MTV20P = up to 4; MTV15P = up to 2).
To program pager reporting, do the following:

1. Enter the pager phone number(s), preface characters, and pager report options in data fields *160 - *171.
2. Enable Pager Delay, if desired, in field *172 (delays alarm reporting for ALL pagers).
3. Make sure appropriate user open/close pager reports are enabled (see Security Codes section in User Guide). Users that perform actions in partition 1 will, if enabled, attempt to report to all pagers enabled for open/close reporting in partition 1. Users that perform actions in partition 2 will, if enabled, attempt to report to all pagers enabled for open/close reporting in partition 2.
4. If using latchkey pager report, define the latchkey report schedule using Scheduling mode (master code + [#] [6] [4] then select event type *03*). System must be armed for the Latchkey report to be sent.
5. If using a function key to manually send a message to a pager, use *57 Function Key Menu mode to define the key (function *01*).
6. If reporting zone alarms and troubles to a pager, use *81 Zone List menu mode to assign the zones associated with each pager (zone lists 9-12†).

† MTV15P supports zone lists 9 and 10 only.

∗160 Pager 1 Phone No.

Enter up to 20 digits. 0–9; #+11 = '∗'; #+12 = '#'; #+13 = 2-sec pause.
If entering fewer than 20 digits, exit by pressing [∗] + next field number. To clear entries, press ∗160∗

∗161 Pager 1 Characters

Enter the optional prefix characters, up to 16 digits.
0–9; #+11 = '∗'; #+12 = '#'; #+13 = 2-second pause.

Up to 16 optional characters may be sent as a prefix to the 7-digit system status code sent to Pager #1 (if used). Phone number in field *160 must have been entered. If fewer than 16 characters, exit by pressing [∗] and next field number. To clear entries: press ∗161∗.
The 16 characters may be composed of the following:
PIN number, Subscriber account number,
∗ character, # character, 2-second pause,†
special character(s) the user may decide to transmit
† Some paging systems require pause(s) before the prefix.
The Pager format for the 7-digit status code is defined as follows:
XXX-YYYY where:
XXX = 3-digit event code: 911 = Alarm, 811 = Trouble, 101 = Opening (disarm), 102 = Closing (arm AWAY)
YYYY = 4-digit user or zone number (depending on type of event). The first digit indicates partition (0 = system, 1 = part 1, 2 = part 2, 3 = common), followed by the 3-digit user or zone number.
Display Example 1. 9 1 1 – 1 0 0 4 Indicates an alarm (911) caused by a fault in zone 4 (0004) in part. 1.
Display Example 2. 1 0 2 – 2 0 0 5 Indicates the system is reporting a closing–system arming (102) by User 5 (0005) in partition 2.

∗162 Pager 1 Report Options [0,0,0] ☐ ☐ ☐
P1 P2 common

For each partition, select from the following options:
0 = no reports sent
1 = Opens/closes all users enabled for paging†
4 = All alarms and troubles
5 = All alarms / troubles, and opens/closes for all users
12 = Alarms / troubles for zones entered in zone list 9
13 = Alarms / troubles for zones entered in zone list 9, and opens/closes for all users
For each partition, select from the listed options.
† For users enabled for paging. Reports to pager only when arming (close)/disarming (open) from a keypad using a security code; auto-arming/disarming, arming with assigned button, and keyswitch arming do not send pager messages.

∗163 Pager 2 Phone No.

Enter up to 20 digits. 0–9; #+11 = 'Q'; #+12 = '#'; #+13 = 2-sec pause.
If entering fewer than 20 digits, exit by pressing [∗] + next field number. To clear entries, press ∗163∗.

∗164 Pager 2 Characters

Enter the optional prefix characters, up to 16 digits.
0–9; #+11 = '✱'; #+12 = '#'; #+13 = 2-second pause.
See field ∗161 for explanation. If fewer than 16 characters, exit by pressing [∗] and next field number. To clear entries, press ∗164∗.

∗165 Pager 2 Report Options [0,0,0] ☐ ⬚ ⬚

P1 P2 common

See field *162 for reporting options. Select for each partition (use zone list 10 if using options 12 or 13).

∗166 Pager 3 Phone No.

Enter up to 20 digits. 0–9; #+11 = '✱'; #+12 = '#'; #+13 = 2-sec pause.
If entering fewer than 20 digits, exit by pressing [∗] + next field number. To clear entries, press ∗166∗.

∗167 Pager 3 Characters

Enter the optional prefix characters, up to 16 digits.
0–9; #+11 = '✱'; #+12 = '#'; #+13 = 2-second pause.
See field ∗161 for explanation. If fewer than 16 characters, exit by pressing [∗] and next field number. To clear entries, press ∗167∗.

∗168 Pager 3 Report Options [0,0,0] ⬚ ⬚ ⬚

P1 P2 common

See field *162 for reporting options. Select for each partition (use zone list 11 if using options 12 or 13).

∗169 Pager 4 Phone No.

Enter up to 20 digits. 0–9; #+11 = '✱'; #+12 = '#'; #+13 = 2-sec pause.
If entering fewer than 20 digits, exit by pressing [∗] + next field number. To clear entries, press ∗169∗.

∗170 Pager 4 Characters

Enter the optional prefix characters, up to 16 digits.
0–9; #+11 = '✱'; #+12 = '#'; #+13 = 2-second pause.
See field ∗161 for explanation. If fewer than 16 characters, exit by pressing [∗] and next field number. To clear entries, press ∗170∗.

∗171 Pager 4 Report Options [0,0,0] ⬚ ⬚ ⬚

P1 P2 common

See field *162 for reporting options. Select for each partition (use zone list 12 if using options 12 or 13).

∗172 Pager Delay Option For Alarms [3] ☐

0 = none; 1 = 1 minute; 2 = 2 minutes; 3 = 3 minutes
This delay is for ALL pagers in the system.
This field determines the delay of alarm reports to the pager. This gives the Central Station enough time to verify the alarm report it received before the dialer attempts to dial the pager.

MISCELLANEOUS SYSTEM FIELDS (*174-*181)

∗174 Clean Me Reporting Options [0] ☐

(for ESL smoke detectors)
0 = disable; 1 = Clean Me signal reports;
NOTE: If Clean Me is enabled, you must enter "3" in field ✱56 programming for zone 1 response time.
This is a maintenance feature for ESL 2-wire smoke detectors on Zone 1. If used, this option limits the number of smoke detectors to a maximum of 10, rather than 16. To enable the "clean me" feature, a time response setting of "3" (1.2 seconds) must be entered in ∗56 Zone Programming for zone 1.

∗177 Device Duration 1, 2 [0] [0] ☐ ☐

(used in *80 Menu mode-Device Actions 5/6) 1 2

0 = 15 seconds	6 = 2-1/2 min	#+11 = 7 min
1 = 30 seconds	7 = 3 min	#+12 = 8 min
2 = 45 seconds	8 = 4 min	#+13 = 10 min
3 = 60 seconds	9 = 5 min	#+14 = 12 min
4 = 90 seconds	#+10 = 6 min	#+15 = 15 min
5 = 2 minutes		

These entries set the duration for output action options 5 (duration 1) and 6 (duration 2) programmed in ∗80 Output Function Programming.

∗181 50/60 Hertz AC Operation [0] ☐

0 = 60 Hz; 1 = 50 Hz
Select the type of AC power applied to the control (option is used for Real-Time Clock synchronization)

CONFIGURABLE ZONE TYPE OPTIONS (*182-*185)

(see Configurable Zone Type Worksheet on page 13)

- The system allows you to define custom zone types (MTV20P supports 4 [types 90-93]; MTV15P supports 2 [types 90, 91]), based on the options described below.
- All configurable zone types can be programmed via the downloader. Zone types 90-91 can also be programmed from a keypad using data fields *182-*185.
- **IMPORTANT:** Be careful when selecting combinations of options for configurable zone types. Contradictory options can cause unpredictable results.

Configurable Zone Type Options

Auto Restore (entry 2): Faults on zones set for this option are cleared; restore messages sent upon restoral of faults.
Vent Zone (entry 2): Zones set for this option are ignored if faulted when arming the system, but are protected if the zone is later restored (e.g., an open window can be ignored when arming, but if the window is later closed, it will be protected; opening the window again causes an alarm.)
Bypass Disarmed (entry 4): Zones set for this option can be bypassed only while the system is disarmed.
Bypass Armed (entry 4): Zones set for this option can be bypassed when the system is armed.
Dial Delay (entry 6): Alarms on zones set for this option participate in dial delay central station reporting, if system dial delay enabled in field *50.
Fault Delay (entry 6): Faults on zones set for this option are delayed by the time set in field *87. Do not use this option if using entry/exit delay for this zone type.
Faults Display (entry 7): Selects how faults on zones set for this zone type are displayed.
Power Reset/Verification (entry 7): Selects whether the system resets power (when user enters code + OFF), and whether the system performs alarm verification (see description for zone type 16 in **Zone Type Definitions** section) when a fault occurs on these zones.
Use Entry Delay (entry 8): Selects whether to use the system's entry delay times.
Use Exit Delay (entry 8): Selects whether to use the system's exit delay time.
Interior Type (entry 8): Zones set for this option are treated same as standard zone type 4 (bypasses when armed STAY, faults displayed).
Alarm Sounds (entry 9): Selects the type of alarms sound for zones set for this zone type.

Configurable Zone Type Options (continued)

Bell Timeout (entry 9): Alarm sounding on zones set for this option remain for the duration set in fields *32 / *33.
Fire Zone (entry 9): Zones set for this option respond in the same manner as if programmed for zone type 9. Do not set fire zones to respond as a "fault" in entries 1-6.
Trouble Sounds (entry 10): Selects the type of trouble sounds for zones set for this zone type (periodic beeps = once every 30 seconds; trouble beeps = rapid beeping).
Chime Enable (entry 10): Zones set for this option cause a chime when Chime mode is on.

∗182 Configurable Zone Type 90

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

1 2 3 4 5 6 7 8 9 10

Enter the appropriate value for each entry, 1-10, based on the charts provided on the next page. Each entry is the sum of the values of its selected options
(0-9, #+10=10, #+11=11, #+12=12, #+13=13, #+14=14, #+15=15).
To calculate the value for each entry, add the values of the selected options in each of the entry's columns shown in the respective chart (one option per column). For example, to program entry 2 for "alarm response to short," "auto restore on," but not a "vent zone," enter 5 ("1" for alarm short + "4" for auto restore-yes + "0" for vent zone-no).

UL: Do not configure zones as a fire alarm or UL burglar alarm zone.

∗183 Zone Type 90 Report Codes

90 ALARM ID: XXX
TROUBLE ID: XXX

Enter the desired 3-digit Contact ID® report codes for alarms and troubles occurring on zones assigned to this zone type. Enter the codes sequentially (all 6 digits). When entering digits, [#] moves cursor back, [∗] moves forward. Press [∗] when done to continue.
NOTE: Zone alarm report codes and trouble report code (∗60) and relevant restore codes must be enabled in order to report configurable zone type codes.
Important Notice on Report Codes: To avoid confusion at the central station, it is recommended that existing Contact ID® codes be used with configurable zone types whenever possible. Check with the central station for a complete list of Contact ID® report codes. If none of the codes are suitable, choose a code in the reserved range of 750-789 and make sure to define the code with your central station.

∗184 Configurable Zone Type 91

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

1 2 3 4 5 6 7 8 9 10

Enter the appropriate value for each entry, 1-10, based on the charts provided on the next page. Each entry is the sum of the values of its selected options
(0-9, #+10=10, #+11=11, #+12=12, #+13=13, #+14=14, #+15=15).
See ∗182 for entries.

UL: Do not configure zones as a fire alarm or UL burglar alarm zone.

∗185 Zone Type 91 Report Codes

91 ALARM ID: XXX
TROUBLE ID: XXX

See ∗183 for entries.
Press [∗] when done to continue.

∗189 AUI Device Enable [0,0,0,0] ☐ ☐ ⬚ ⬚

(for Touchscreen Keypads) AUI 1 AUI 2 AUI 3 AUI 4

System supports touchscreen style keypads (e.g., Symphony Advanced User Interface, and 6270 Touchscreen Keypad).

AUI Compatibility Note: To ensure proper AUI device operation, use AUI devices with the following rev levels: 6270 series use version 1.0.9 or higher; 8132/8142 (Symphony) series use version 1.1.175 or higher.

Touchscreen device 1: Set device address to 1
Touchscreen device 2: Set device address to 2
Touchscreen device 3: Set device address to 5 (V20PMT)
Touchscreen device 4: Set device address to 6 (V20PMT)

Note for Remote Services Device Address: Using an AUI device address for Remote Services provides enhanced remote services features, but an actual AUI device is not used. If no AUI addresses are available (all four AUIs are being used), choose an available standard keypad address and use the appropriate keypad address field ∗190 - ∗196 to select the Remote Services operating partition (some remote access features will be unavailable).

NOTE: Use of touchscreen style keypads does not affect the number of standard keypads supported.

VISTA-20PMT: Up to four AUI devices.
To enable a touchscreen keypad, enter the option corresponding to each touchscreen's home partition.

For Touchscreen device usage
0 = disable
1 = partition 1
2 = partition 2
3 = partition 3 (common)

For Remote Services device usage
5 = part. 1 (auto-stay arm disabled)
6 = part. 2 (auto-stay arm disabled)
7 = part. 3 (common; auto-stay arm disabled)

VISTA-15PMT: Up to two AUI devices. Select the desired option.
For Touchscreen device usage
0 = disable
1 = enable

For Remote Services device usage
5 = auto-stay arm disabled

Note for Remote Services Devices: If using the Remote Services feature of the communication device, select an option 5-7, depending on the partition the Remote Services device is associated with (these options automatically disable auto-stay arming when the system is armed from the respective Remote Services device). Refer to the communication device's installation instructions for details on enabling the Remote Services feature.

KEYPAD OPTIONS *190-*196

To enable keypads:

1. Set desired address at keypad (refer to keypad's instructions for setting the address).
2. Use data fields *190-*196 to enable keypad addresses, assign a partition, enable sound options in field.
3. Use fields *197, *198, and *199 to turn on partition number display, exit time interval display, and select fail display mode.
4. Set keypad-related data fields as appropriate: *21 Quick Arm Enable, *23 Forced Bypass, *84 Auto STAY Arm

N**OTES**: 1. Options for keypad address 16 are set by the factory and cannot be changed.)
2. Each keypad must be assigned a unique address. Keypads programmed with the same address will give unpredictable results.

KEYPAD OPTIONS

∗190 Keypad 2 Device Address 17 [0] [0] ☐ ☐

VISTA-20PMT V20P Partition/ Sound
Partition: V15P Enable

Enter the desired option for the keypad's home partition.

For Touchscreen device usage
0 = disable
1 = partition 1
2 = part. 2
3 = part. 3 (common)

For Remote Services device usage
5 = part. 1 (auto-stay arm disabled)
6 = part. 2 (auto-stay arm disabled)
7 = part. 3 (common; auto-stay arm disabled)

Sound: Enter the desired sound option for this keypad.
0 = no suppression
1 = suppress arm/disarm and E/E beeps
2 = Suppress chime beeps only
3 = suppress arm/disarm, E/E, and chime beeps

VISTA-15PMT
Enable:

For Touchscreen device usage
0 = disable
1 = enable

For Remote Services device usage
5 = auto-stay arm disabled

Sound: Enter the desired sound option for this keypad.
0 = no suppression
1 = suppress arm/disarm and E/E beeps
2 = Suppress chime beeps only
3 = suppress arm/disarm, E/E, and chime beeps

Note for Remote Services Devices: If using the Remote Services feature of the communication device, select an option 5-7 (option 5 for VISTA-15PMT), depending on the partition the Remote Services device is associated with (these options automatically disable auto-stay arming when the system is armed from the respective Remote Services device). Refer to the communication device's installation instructions for details on enabling the Remote Services feature.

Partition Enable Sound

∗191 Keypad 3 Device Address 18 [0] [0] ☐ ☐

See field ∗190 for entries.

∗192 Keypad 4 Device Address 19 [0] [0] ☐ ☐

See field ∗190 for entries.

∗193 Keypad 5 Device Address 20 [0] [0] ☐ ☐

See field ∗190 for entries.

∗194 Keypad 6 Device Address 21 [0] [0] ☐ ☐

See field ∗190 for entries.

∗195 Keypad 7 Device Address 22 [0] [0] ☐ ☐

See field ∗190 for entries.

∗196 Keypad 8 Device Address 23 [0] [0] ☐ ☐

See field ∗190 for entries.

∗197 Exit Time Display Interval [2] ☐

0 = no display; 1-5 = seconds between display refresh
If enabled, keypads display the exit time remaining after arming the system, updated at the interval selected (i.e. if the exit delay is 30 seconds and "2" is selected in this field, the keypad display refreshes every 2 seconds, displaying 30, 28, 26, 24, etc.).
An interval greater than "1" may be necessary for some older keypads to allow users time to enter key presses between display updates.
NOTE: If enabled and using only 2-digit fixed-word keypads (e.g., 6150RF), do not set exit delay time greater than 96 seconds. Using a longer delay time may cause end-user confusion because 2-digit display keypads cannot display times greater than "99." If longer exit time is required by the installation, it is recommended that the Exit Time Display option be disabled ("0").
TOUCH SCREEN DEVICE NOTE: If using more than one touch screen device (e.g., 6270, Symphony) with the system, leave field *197 Exit Time Display Interval set to the default value "0." The 6270 automatically displays remaining exit time in one-second increments.

∗198 Display Partition Number [1] ☐

(VISTA-20PMT; for Alpha Display Keypads)
0 = no; 1 = yes (partition no. appears on Alpha Display)
If selected, the partition number is displayed in the upper-left corner of the display. This is useful when using the GOTO partition function.

∗199 ECP Fail Display [0] ☐

0 = 3-digit display ("1" + device address)
1 = 2-digit fixed-display as "91"
Select "0" if using Alpha keypads and/or 3-digit Fixed-Word Display keypads. ECP faults will display "1" plus the device address (00-15) of device causing the fault (e.g., faults on device 07 display as "107").
Select "1" if using 2-digit Fixed-Word Display keypads (e.g., certain 6128 series keypads). If selected, ECP faults for all devices will display as "91" on 2-digit displays, and "191" on 3-digit or Alpha keypads.

CONFIGURABLE ZONE TYPES WORKSHEETS

Configurable zone types 90 and 91 can be programmed via downloader software or from a keypad using data fields*182-*185. Configurable zone types 92 and 93 (VISTA-20PMT only) can only be programmed using the downloader software.

Programming Configurable Zone Type options involves making 10 entries in data field *182 for zone type 90 and field *184 for zone type 91, where each entry represents the sum of the values of the various options shown in the tables below. Use fields *183 and *185 to program Contact ID report codes for these zone types.

ENTRY 1 (See note 5 for RF zones)		**ENTRY 2** (See note 5 for RF zones)		
Response when system disarmed and zone is:				
Intact EOL *RF zone normal*	**Open** *RF zone N/A*	**Shorted** *RF zn off-normal*	**Auto Restore**	**Vent Zone**
0 = normal 1 = alarm 2 = trouble 3 = fault	0 = normal 4 = alarm 8 = trouble 12 = fault	0 = normal 1 = alarm 2 = trouble 3 = fault see note 6	0 = no 4 = yes	0 = no 8 = yes
Entry 1 = EOL + Open		Entry 2 = Short + auto restore + vent zone		

ENTRY 3 (See note 5 for RF zones)		**ENTRY 4** (See note 5 for RF zones)		
Response when armed STAY and zone is:			**Byp. when disarmed**	**Byp. when armed**
Intact EOL *RF zone normal*	**Open** *RF zone N/A*	**Shorted** *RF zn off-normal*		
0 = normal 1 = alarm 2 = trouble 3 = fault	0 = normal 4 = alarm 8 = trouble 12 = fault	0 = normal 1 = alarm 2 = trouble 3 = fault see note 6	0 = no 4 = yes	0 = no 8 = yes
Entry 3 = EOL + Open		Entry 4 = Short + byp. disarmed + byp. armed		

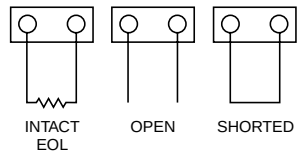
ENTRY 5 (See note 5 for RF zones)		**ENTRY 6** (See note 5 for RF zones)		
Response when armed AWAY and zone is:			**Dial Delay (see field *50)**	**Fault Delay (see field *87)**
Intact EOL *RF zone normal*	**Open** *RF zone N/A*	**Shorted** *RF zn off-normal*		
0 = normal 1 = alarm 2 = trouble 3 = fault	0 = normal 4 = alarm 8 = trouble 12 = fault	0 = normal 1 = alarm 2 = trouble 3 = fault see note 6	0 = no 4 = use delay	0 = no 8 = use delay see note 1
Entry 5 = EOL + Open		Entry 6 = Short + dial delay + fault delay		

ENTRY 7		**ENTRY 8**		
Display Faults	**Power Reset/ Verification**	**Use Entry Delay 1/2**	**Use Exit Delay**	**Respond as Interior Type**
0 = show alarms when armed & disarmed 1 = don't show alarms when armed (show alarms, trbles, faults when disarmed) 3 = never show any alarms, trbles, faults	0 = no 4 = power reset after fault (by code + OFF) 12 = verification (see zone type 16)	0 = no 1 = delay 1 2 = delay 2	0 = no 4 = use exit delay	0 = no 8 = yes see note 2
Entry 7 = fault display + power reset/verification		Entry 8 = entry delay 1/entry delay 2 + exit delay + interior zone type		

ENTRY 9			**ENTRY 10**	
Alarm Sounds	**Use Bell Timeout**	**Respond as Fire Zone**	**Trouble Sounds**	**Chime when Chime Mode On**
0 = none 1 = steady keypad 2 = steady bell and keypad 3 = pulsing bell and keypad	0 = no 4 = yes see fields *32, *33	0 = no 8 = yes see zone type 09; see note 4	0 = none 1 = periodic beep 2 = trouble beeps	0 = no 4 = yes
Entry 9 = alarm sounds + bell timeout + fire zone			Entry 10 = trouble sounds + chime	

Entries for Fields *182 and *184		
Entry	**Zone Type 90 (field *182)**	**Zone Type 91 (field *184)**
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

To calculate the value for each entry: Simply add the values of the selected options in each of the entry's columns (one option per column). For example, to program Entry 2 for "alarm response to short," "auto restore on," but not a "vent zone," enter 5 ("1" for alarm short + "4" for auto restore yes + "0" for vent zone no).



Zone Conditions Represented in Entries 1-6

NOTES:

1. Do not use the "fault delay" option with a configurable zone type if it is set for an entry or exit delay, otherwise unpredictable results may occur.
2. To create an interior type zone, select "respond as interior zone type" (entry 8, interior type = yes), and set zone response to "fault" in entries 3-4 to ensure fault displays; do not set as "normal," "alarm," or "trouble."
3. Do not set fire zones to respond as a "fault" (entries 1-6), otherwise faults will not display unless the [*] key is pressed.
4. 4219/4229 modules must use EOLRs or unpredictable results may occur.
5. RF Zones: The "open" option in entries 1, 3, and 5 is not applicable for RF zones. Use the "intact EOL" option for normal RF zone conditions and "shorted" for off-normal RF zone conditions.
6. a. Zone-Doubling/Double-Balanced: A short on either zone of a zone-doubled pair or on a double-balanced zone causes a tamper condition.
   b. For double-balanced zones, this entry must be "0."
   c. For zone-doubled zones, **both** zones of the doubled pair must be assigned the same response to a short.

∗56 ZONE PROGRAMMING MENU MODE

(press *56 while in Program mode) The Zone Programming Worksheet is on page 28.

Zones and Partitions

Each protection zone needs to be programmed with various attributes using *56 Zone Programming mode or ✱58 Expert Programming Mode. Using this mode, enter the zone number to be programmed and make appropriate entries at the prompts. Finally, Confirm the serial number of wireless transmitter zones.

The VISTA-20PMT system can control two independent areas of protection (known as partitions) for use by independent users, if desired, by simply assigning zones to one or the other partition during zone programming. The VISTA-20PMT, by default, automatically distributes users between the two partitions. The master user can change the user number distributions. Zones can also be assigned to a common partition, which is an area shared by users of both partitions (such as a lobby in a building). This allows either partition to arm, while leaving the common partition disarmed for access into the other partition. The following describes the functioning of the VISTA-20PMT common partition:

- The common zone sounds and reports alarms only when both partitions are armed. If only one partition is armed, the system ignores faults on the common zone.
- Either partition may arm its system if the common zone is faulted, but once armed, the other partition will not be able to arm unless the common zone is first bypassed or the fault is corrected.
- Faults on the common zone are displayed on common zone keypads, and will also appear on another partition's keypad when that partition is armed.
- Either partition can clear and restore the common zone after an alarm.

For each of the following prompts, make the desired entry, followed by the [∗] key to accept the entry.

SET TO CONFIRM?

0 = no (default)
1 = yes (See XMIT TO CONFIRM prompt later in this section.)
We recommend that you confirm the programming of every transmitter.
This display appears upon entry into this mode.
If 1 (Yes) is entered, you will be prompted to confirm each transmitter after entering the serial and loop numbers (at the "XMIT TO CONFIRM" prompt later).

ENTER ZN NUM.

VISTA-20PMT:
wired 01-08 (and 09-48†)
wireless 09-48; RF button zones 49-64
VISTA-15PMT:
wired 01-06 (and 07-22†)
wireless 09-34; RF button zones 49-56
Both Controls:
91 = addr. device report enable
92 = duress report enable
95, 96, 99 =emerg. zones

To quit, enter 00 to quit (returns to data field mode).
Enter the zone number that you wish to program.
Enter a report code for zone 91 to enable addressable device reporting.
Enter a report code for zone 92 to enable duress reporting.
95, 96, 99 are emergency (panic) key zones.

† if zone expanders are used.

SUMMARY SCREEN:

System displays a summary of the entered zone's current programming. Press [∗] to continue.
"IN: L" appears for wireless zones and indicates input type and loop.
"IN: AD" appears for hardwire expansion zones (AW) and indicates the module's address (AD), which is based on the zone number.
"HW: RT" appears for hardwire zones and indicates configuration (EOL, NO, NC, zone doubling, double-balanced) and response time selection.

ZONE TYPE

Each zone must be assigned to a zone type, which defines the way in which the system responds to faults in that zone. Enter the Zone Type code from the list below:

Note: If 00 is entered, **Delete Zone ?** will be displayed.

00 = Not used	07 = 24-Hr Audible	20 = Arm–STAY*
01 = Entry/exit #1	08 = 24-Hr Aux	21 = Arm–AWAY*
02 = Entry/exit #2	09 = Fire	22 = Disarm*
03 = Perimeter	10 = Interior w/Delay	23 = No Alarm Resp
04 = Interior Follower	12 = Monitor Zone	24 = Silent Burglary
05 = Trouble Day/Alarm Night	14 = Carbon Monoxide	77 = Keyswitch
06 = 24-Hr Silent	15 = Medical**	81 = AAV Monitor Zone
	16 = Fire w/Verify	
*5800 button-type transmitters only		90-91 = Configurable

**Zone type 15 is similar to zone type 08 (keypad alarm sounding, no bell output), except that Contact ID code 100 is sent to the central station.
UL: Zone type 15 may not be used in UL installations.

PARTITION

1, 2, or 3-common (VISTA-20PMT)
Enter the Partition number for this zone.

REPORT CODE

1-9, 10 for 0, 11 for B, 12 for C, 13 for D, 14 for E, 15 for F
For Contact ID®, enter any non-zero entry as the first digit to enable reporting for this zone.
To disable the report code for this zone, enter 00.
Enter the report code for this zone, which consists of 2 hexadecimal digits, each in turn consisting of 2 numerical digits. For example, for a report code of "10," enter *01* and *00*

HARDWIRE TYPE

Appears only for zones 02-08. Zone 1 is automatically set for EOL operation. Enter the desired hardwire type:

0 = EOL	3 = zone doubling (ZD)†	
1 = NC	4 = double-balanced (DB)†	
2 = NO		(† VISTA-20PMT)

RESPONSE TIME

For hardwired zones 01-08. Enter the desired response time for this zone:

0 = 10mSec	2 = 700mSec
1 = 350mSec	3 = 1.2 secs (see field ∗174)

NOTE: If zone doubling is being used, the response time selected for zones 02-08 automatically applies to each zone's associated doubled zone.

INPUT TYPE

Skipped for zones 2-8, and for zones 10-16 if zone-doubling enabled.
Enter the input type:

2 = AW (Aux wired zone)	4 = UR (unsupervised RF)
3 = RF (supervised RF)	5 = BR (unsupervised button type)

NOTE: To change the input type of a previously programmed wireless device to a wired zone, you must first delete the transmitter's serial number.
All of the RF transmitters have one or more unique factory-assigned input (loop) ID codes. Each of the inputs requires its own programming zone (e.g., a 5804's four inputs require four programming zones).
RF Transmitters can be enrolled as one of the following types:

Type	Description
RF (Supervised RF)	Sends periodic check-in signals, as well as fault, restore, and low-battery signals. The trans. must stay within receiver's range.
UR (Unsupervised RF)	Sends all the signals that the "RF" type does, but the control does not supervise the check-in signals. The transmitter may therefore be carried off-premises.
BR (Unsupervised Button RF)	Sends only fault signals. It will not send a low-battery signal until it is activated. The transmitter may be carried off-premises.

NOTE: For the built-in hardwired zones, the Input Device type is automatically displayed as HW and cannot be edited.

INPUT S/N

Enroll the transmitter's serial number and loop number as follows:

1. a. Transmit two open/close sequences (for button-type transmitters, press and release the button twice, waiting about 4 seconds before pressing the button the second time).

   OR

   b. Manually enter the 7-digit serial number printed on the label of the transmitter. Press the [*] key to move to the "L" position, then enter the loop number.
   Use the [A] (Advance) and [B] (Back) keys to move the cursor forward and back within the screen. Pressing the [C] (Copy) key will insert the previously enrolled serial number, if desired (used when programming a transmitter with several input loops).

   To delete an existing serial number, enter 0 in the loop number field. The serial number will change to 0's. If 0 was entered in error, simply re-enter the loop number or press [#], and the serial number will return to the display.

2. Press [*] to continue. The system now checks for a duplicate serial/loop number.
   If no duplicate is found, the display shows the serial number and loop number.
3. Press [*] to continue to confirmation screen.

Loop Number Change

NOTE: If the [C] key is used to copy the previously enrolled serial number, the cursor will move to the Loop column (L) with the previous serial number displayed, and display a highlighted question mark for the loop number.

Enter the loop number and press [**✱**]. The system will now check for a duplicate serial/loop number combination.

XMIT TO confirm

Appears if you answered "Yes" at the "Set to Confirm" prompt.
Activate the loop input or button that corresponds to this zone.
Press [*] to continue.
If the serial/loop number transmitted does not match the serial number entered, a display showing the entered and the received serial/loop numbers appears.
If so, activate the loop input or button on the transmitter once again. If a match is not obtained, press the [#] key twice and then enter (or transmit) the correct serial number.
Press [*] to continue
If the serial number transmitted matches the serial number entered, the keypad will beep 3 times and a summary display will appear, showing that zone's programming. An "s" indicates that a transmitter's serial number has been enrolled.

Press [*] to accept the zone information and continue.

PROGRAM ALPHA?

Press 1 if you want to program descriptors for the zone now, and refer to the *82 Descriptor Programming section for procedure.
To program descriptors later, enter 0 (no).
Press [*] to return to the ENTER ZN NUM prompt.

Completing Zone Programming

- When you have finished programming all zones, test each zone using the system's TEST mode.
- **Do not use the Transmitter ID Sniffer Mode for checking wireless transmitting devices**, as it will only check for transmission of one zone on a particular transmitter, NOT the zones assigned to each additional loop.

✱58 EXPERT ZONE PROGRAMMING MODE

(press ✱58 while in Data Programming mode)
This method is designed for use by installers with previous experience in programming HONEYWELL control panels. This mode is also used to program wireless keys using pre-defined templates.

SET TO CONFIRM?

Select whether you want confirmation of wireless device enrollment. (See "XMIT TO CONFIRM" prompt later in this section.) **We recommend that you confirm the programming of every transmitter.**

SUMMARY SCREEN

```
Zn   ZT P  RC  HW:  RT
01   09 1  10   EL   1
```

(Typical for Zone 1, initial summary screen)

```
Zn   ZT  P  RC  IN:  L
10   00  1  10  RF: –
```

(Typical for entered zone number; zone 10 in this example)

System displays summary of zone 1's current programming.
Enter the zone number being programmed, then press [*]. A summary screen for that zone is displayed, along with any current programming values, and the cursor moves to the Zone Type location. The cursor then automatically moves to the next locations after each entry is made.

Special Function Keys:

- [A] (Advance) and [B] (Back) keys on the keypad move the cursor within the screen.
- [C] (Copy) key will insert the previous zone's attributes, if desired.
- [D] key starts the **Wireless Key Programming Templates** menu (see Wireless Key Programming Templates section that follows this section).

Sequentially enter Zone Type (ZT), Partition (P)†, and Report Code (RC; 0-9 only; use *56 mode to enter hex codes), then Hardwire Type (HW) and Response Time (RT) for basic wired zones 1-8 **or** Input Device Type (IN) for zones 9 and higher (Loop Number [L] is programmed at the INPUT S/N prompt).
See *56 Zone Programming Menu Mode section described earlier for entry values.
† applies to VISTA-20PMT

Press [*] to save the programming and continue. If needed, press the [#] key to back up without saving.

- For wireless devices (input types RF, UR, BR), continue to the INPUT S/N (serial number/loop number) and XMIT TO CONFIRM prompts described earlier in the ***56 Zone Programming Menu Mode** section. When done, the display returns to the initial summary screen prompt to let you program the next zone.
- For wired devices, the display returns to the initial summary screen prompt to let you program the next zone.

To Quit, enter 00 at the zone number location and press [*].

WIRELESS KEY PROGRAMMING TEMPLATES

(press the [D] key from *58 Menu mode Summary Screen)

This procedure programs the wireless keys, **but a key is not active for arming/disarming until it is assigned to a user number** (see ***System Operation*** section, Assigning Attributes Command in the Installation Instructions).

TEMPLATE ?

Enter desired template number 1–6 (see chart below), then press [∗] to continue.

To exit the Template screen, press [#]. The system returns to the *58 Menu mode Summary Screen.

TEMPLATE SUMMARY

L	01	02	03	04
T	23	22	21	23

The selected template is displayed.

The top line represents loop numbers, the bottom line represents each loop's zone type.

Press [∗] to accept template and continue.

PARTITION (VISTA-20PMT)

Enter the partition (1, 2) in which the key is to be active. Press [∗] to continue.

ENTER START ZONE

The system displays the lowest zone number of the highest available consecutive 4-zone group.

To start at a different zone number, enter the zone desired, and press [∗]. If the system has four consecutive zones beginning with that zone, the zone number is displayed. If not, the system will again display a suggested zone that can be used.

If the required number of consecutive zones is not available at all, the system will display "00".

Press [∗] to accept.

Continue to the INPUT S/N (serial number/loop number) and XMIT TO CONFIRM prompts described earlier in the ***56 Menu Mode** section.

IMPORTANT: When confirmed, the key is not active for arming/disarming until it is assigned to a user number (using the assigning attributes command, attribute "4"). See System Operation section in Installation Instructions.

When done, the keypad beeps three times and the display returns to the ENTER START ZONE prompt to let you enter the starting zone for the next wireless key.

To quit this mode and return to *58 Menu mode, enter 00 at this prompt and press [∗].

Wireless Key Predefined Default Templates

For 5804	Loop	Function	Zone Type	For 5804BD	Loop	Function	Zone Type
TEMPLATE 1	1	No Response	23	TEMPLATE 4	1	No Response	23
	2	Disarm	22		2	No Response	23
	3	Arm Away	21		3	Arm Away	21
	4	No Response	23		4	Disarm	22
TEMPLATE 2	1	No Response	23	TEMPLATE 5	1	No Response	23
	2	Disarm	22		2	Arm Stay	20
	3	Arm Away	21		3	Arm Away	21
	4	Arm Stay	20		4	Disarm	22
TEMPLATE 3	1	24-hour audible	7	TEMPLATE 6	1	24-hour audible	7
	2	Disarm	22		2	Arm Stay	20
	3	Arm Away	21		3	Arm Away	21
	4	Arm Stay	20		4	Disarm	22

∗57 FUNCTION KEY PROGRAMMING

(press *57 while in Data Programming mode) The Function Key Worksheet is on page 29.

The system provides the ability to program each of the four keypad function keys to perform one of 12 system operations. The end user can then activate the function by simply pressing and holding the programmed key for 2 seconds. Typical functions (listed below) include single-button arming, turning lights on/off, or single-button paging.

To assign emergency key functions (function key option "00"), first program the respective emergency zone number (95 for "A" key, 96 for "C" key, 99 for "B" key) with the desired zone type using ∗56 (or ∗58) Zone Programming mode, then use ∗57 Function Key menu mode to assign the desired key.

To use a function key to activate a relay action (∗57 Menu mode key function 07), use ∗79 Menu mode to map the output, and use ∗80 Menu mode to define the output's action; select system operation type "66."

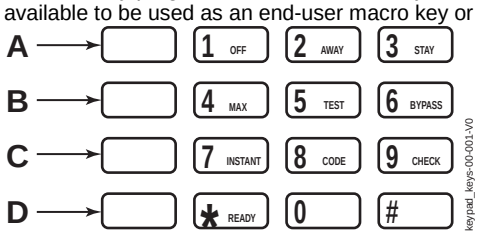
To use a function key for a user macro, use ∗57 menu mode to activate the desired key, then define the actual macro functions using the user code + [#] + [6] [6] command.

PRESS KEY TO PGM

Press the desired function key to be programmed, A-D, then press [∗] to continue.

When done, press 0 to exit this mode and return to data field mode.

NOTE: A key programmed as a function key is no longer available to be used as an end-user macro key or panic key.



PARTITION (VISTA-20PMT)

Enter the partition (1-3) in which this function key will be active.

KEY "A" FUNC

Enter the desired function for this key:

00 = For the Function key selected, the function will be as follows (default):
  If A selected = Zone 95 (emergency key, same as [1] [∗] pair)
  If B selected = Zone 99 (emergency key, same as [∗] [#] pair)
  If C selected = Zone 96 (emergency key, same as [3] [#] pair)
  If D selected = Single-button paging
01 = Single-button paging (sends a 999-9999 message to pager)
02 = Display time
03 = Arm AWAY (reports as User 00 if closing reports are enabled)
04 = Arm STAY (reports as User 00 if closing reports are enabled)
05 = Arm NIGHT-STAY (reports as User 00 if closing reports enabled)
06 = Step Arming (arms STAY, then NIGHT-STAY if enabled, then AWAY)
07 = Output Device Command (for device programmed as system operation type 66 in *80 Menu Mode)
08 = Communication Test (sends Contact ID code 601)
09 -12= Macro Keys 1-4 respectively (defined by [#] [6] [6] command)

NOTE: Macros 11-12 apply to VISTA-20PMT only

Press [∗] to continue; returns to key number prompt with the next function key letter displayed.

OUTPUT DEVICE PROGRAMMING GENERAL INFORMATION (*79/*80 Menu Mode)

Output Devices: The VISTA-20PMT system supports up to 16 relays and/or Powerline Carrier devices (X-10 devices) plus 2 built-in trigger outputs in any combination. These 18 "outputs" are assigned to system-wide output numbers (01-18). Use *79 Menu Mode to assign output numbers and map them to device addresses. The VISTA-15PMT supports 8 relays and 2 built-in trigger outputs (total 10 outputs).

Output Functions: The system also provides installer-defined output functions, which can be assigned to any of the physical outputs. Therefore, the action of any one of the outputs can be based on as many of these defined functions as desired. This lets a single relay or X-10 device perform many functions.
The control supports: V20PMT = up to 48 defined functions; V15PMT = up to 24 functions
Use *80 Menu Mode to define output functions.

WARNING: Relays and output devices are not recommended for life safety applications.

NOTE: When navigating the *79 and *80 menus: The [✱] key is used to accept an entry and advance to the next prompt. The [#] key is used to revert back to the last question to check or change an entry. Press [✱] to go forward again.

Programming Output Devices

1. Use *79 Menu Mode to assign module and output numbers and map them to device addresses.
   NOTE: You must map output devices using *79 Menu Mode **before** you can use *80 menu Mode.
2. Use *80 Menu Mode to create output definitions, which control the output devices, if desired.
3. Use *81 Zone List Menu mode to define zone lists for use with output devices if the device action is based on more than one zone.

- To program a device for manual activation (user code + [#] [7] / [#] [8] + 2-digit device number) or for scheduled automatic activation, simply map the device using *79 Menu mode.
- To program a device to automatically activate upon a system event (or function key), use *79 Menu mode to map the device, then use *80 Menu mode to define the automated device action.

∗79 RELAY/POWERLINE CARRIER DEVICE PROGRAMMING MENU MODE

(press *79 while in Programming mode) The *79 Device Mapping Worksheet is on page 29.
Use this menu to assign Relay Module device addresses and specific relay numbers, and Powerline Carrier unit numbers. The system is based on predefined module addresses for 4204 and 4229 modules. Refer to the table shown at the "Module Address" prompt and set the modules' addresses (via module DIP switches) accordingly.

The following table shows how these outputs are identified.

Output Identification

This output…	is identified by…
Relays	the Relay Module's device address and the relay position on that module (i.e. the physical relay number, 1-4, on that module).
X-10 Device	a house ID (entered in data field *27) and the unit number of the device.
Built-in Outputs	the output number assigned, 17 for Trigger 1 and/or 18 for Trigger 2.

ENTER OUTPUT NO.

01-18 = VISTA-20PMT relays/X-10;
01-08, 17, 18 = VISTA-15PMT relays/X-10
[∗] to continue
This is the logical (or reference) relay number as used in the system. Relays and X-10 devices are numbered 01-16; the on-board triggers are numbered 17 and 18 and can be programmed for inverted output, if required.

OUT NORM LOW (appears only for triggers 17/18)

0 = no (standard default); sets the output level normally high
1 = yes; sets the output normally low (can be used for resetting 4-wire smoke detectors)
[∗] to return to Output Number prompt
Output Trigger 17 can be used for resetting 4-wire smoke detectors by connecting it to the negative power terminal of the smoke detector, selecting 1 at this prompt, and setting as zone type 54, fire zone reset, in *80 Menu mode.
After entry, display returns to Output Number prompt. Use *80 Menu mode to program the function of the trigger.

OUTPUT TYPE

0 = delete; 1 = 4204/4229 relay (skip to "B" prompt); 2 = Powerline Carrier device (skip to "A" prompt)
[∗] to continue.

"A" (if X-10 was selected)

UNIT No.

Enter the unit code (01-16, set at the device).
[∗] to return to the Output Number prompt continue

"B" (if relay was selected)

MODULE ADDR

Enter the predefined address for this module (07-15; see Table of Device Addresses).
Make sure the module's DIP switches are set to the selected address.
[∗] to continue

Module Addresses

Address	Module
07	1st 4229 (with zones 09-16)
08	2nd 4229 (with zones 17-24)
09†	3rd 4229 (with zones 25-32)
10†	4th 4229 (with zones 33-40)
11†	5th 4229 (with zones 41-48)
12	1st 4204
13	2nd 4204
14†	3rd 4204
15†	4th 4204

† These addresses apply to VISTA-20PMT only.

REL POSITION (actual relay number on module)

For 4204 modules, relay numbers are 1-4. For 4229 modules, relay numbers are 1-2.
[∗] to return to the Output Number prompt for programming the next device
This is the actual (or physical) relay number with respect to the Relay Module upon which it is located. For 4204 modules, relay numbers are 1-4. For 4229 modules, relay numbers are 1-2.
The system returns to the Output Number prompt for programming the next device.

∗80 OUTPUT FUNCTION MENU MODE

(press *80 while in Programming mode)
The Output Definition Worksheet is on page 30.
Use this mode to program output function definitions (up to 48 functions) that provide automated control of any of the output devices, based on events occurring on individual zones or zones with certain zone types. Each output definition is identified by an output function number, and includes the following components:

Output Definition Components

Component	Description
Output Function No.	A reference number that defines an output's characteristics.
Activated By	Determines whether the initiating event occurs on a zone, a zone list, or a zone type.
Event	Event that triggers the output action. Can be an event occurring on a specific zone number or a zone list, or a specific zone type.
Partition	If the output is activated by zone type, this defines the partition in which the programmed event is to cause the device action.
Output Action	Defines the action of the relay/X-10 device when the defined event occurs. Can close for 2 seconds, stay closed until reset, continuously pulse (1-second close-open-close-open, etc.), toggle the device state, or activate for a defined duration (set in data field *177).
Output No.	Assigns this function to a specific output number (defined in *79 Menu Mode). This is the output number that will perform this function upon the triggering event. Note that each defined function is associated with only one output number. This means that if more than one output device needs to perform this particular function, you need to define another output function number with the same attributes, but assign the appropriate output number. (i.e. output devices can be assigned more than one function number, but each function number can only be assigned a single output number.

For example, if you want to pulse a strobe light upon fire alarms on zone 4 using a relay mapped to output number 2 (as programmed in *79 Menu Mode), program the following in *80 Menu Mode:

Prompt		Entry
Output Funct. #	=	01 (assuming this is the first output function)
Activated By:	=	3 (zone number)
Enter Zn No.	=	04 (requires 2-digit zone numbers)
Output Action	=	3 (continuous pulse)
Output Number	=	02 (device mapped in *79 Menu Mode)

OUTPUT FUNCT.
Enter the output function number to be defined (VISTA-20PMT: 01-48; VISTA-15PMT: 01-24).
[∗] to continue; 00 = exit

SUMMARY SCREEN

```
01   A  E  P  Trig
?00  0  0  –  ZL=00
```

This screen displays a summary of the current output programming
A = Output Action; E = Triggering event; P = Partition;
Trig = Trigger type
Question mark indicates the device shown has not been mapped. Use *79 Menu mode to map the device.
[∗] to continue

ACTIVATED BY
0 = delete (deletes the output function and any previous programming); a confirmation prompt appears.
To delete this output definition, press 1. If you do not want to delete this output, press 0.
1 = zone list (go to "A" prompt); 2 = zone type (go to "B" prompt); 3 = zone number (go to "C" prompt)
Press [∗] to continue
Select where the initiating event for this output definition is to occur

"A" (if zone list was selected)

ZN LIST
Enter the desired zone list number (01-08). At the ENTER EVENT prompt, enter the zone list event that will activate this output (0 = restore; 1 = alarm; 2 = fault; 3= trouble)
Press [∗] to continue and skip to the "Output Action" prompt.
NOTE: For alarm, fault, and trouble, an event on ANY zone in the list activates the output, but ALL zones in the list must be restored before the output is restored.

"**B**" (if zone type was selected)

ENTER ZN TYPE
Enter the desired zone type. See list below *80 Worksheet for zone types.
At the PARTITION prompt, enter the partition in which this zone type will occur (0 = any partition; 1 = part 1; 2 = part 2; 3 = part 3).
Press [∗] to continue and skip to the "Output Action" prompt.

CHOICES FOR ZONE TYPES:

00 = Not Used	05 = Day/Night	14 = Carbon Monoxide††
01 = Ent/Exit #1	06 = 24 Hr Silent	15 = Medical
02 = Ent/Exit #2	07 = 24 Hr Audible	16 = Fire w/verification
03 = Perimeter	08 = 24 Hr Aux	23 = No Alarm Response
04 = Interior Follower	09 = Fire	24 = Silent Burglary
	10 = Interior w/Delay	77 = Keyswitch Zone
	12 = Monitor Zone	81 = AAV Monitor Zone
		90-91 = Configurable

CHOICES FOR SYSTEM OPERATION:

20 = Arming–Stay	36 = **At Bell Timeout***	58 = Duress
21 = Arming–Away	38 = Chime	60 = AAV
22 = Disarming	39 = Any Fire Alarm	61 = AVS/GSMV session begin §
31 = End of Exit Time	40 = Bypassing	62 = AVS/GSMV session end §
32 = Start of Entry Time	41 = **AC Power Failure	66 = Function Key†
33 = Any Burglary Alarm	42 = **System Battery Low	67 = Bell Fail
	43 = Comm. Failure	68 = Telco Line Cut
	52 = Kissoff	78 = Keyswitch Red LED
	54 = Fire Zone Reset	79 = Keyswitch Green LED

** Use 0 (Any) for Partition No. (P) entry.
*** Or at Disarming, whichever occurs earlier.

† Use *57 Menu Mode to assign the function key (function "07").

†† when used with an output function, the carbon monoxide zone type activates upon CO alarms only. Does not activate for trouble conditions.

§ automatically set when appropriate AVS Quick Command performed.

Note: In normal operation mode:
Code + # + 7 + NN Key Entry **starts** Device NN.
Code + # + 8 + NN Key Entry **stops** Device NN.

"C" (if zone number was selected)

ENTER ZN NO.
Enter the desired zone number, then press [∗] to continue. At the ENTER EVENT prompt, enter the zone event that will activate this output (0 = restore; 1 = alarm/fault/trouble).
Press [∗] to continue to the OUTPUT ACTION prompt

OUTPUT ACTION
0 = off
1 = Close for 2 seconds
2 = Close and Stay Closed
3 = Continuous Pulse 1 sec on and 1 sec off
4 = Change Device State; 5 = Duration 1 (see data field *177); 6 = Duration 2 (see data field *177)
Press [∗] to continue.
Enter the desired device action.

ENTER OUTPUT NO.
Enter the device output number (programmed in *79 Menu Mode) you want associated with this output.
01-16 = VISTA-20PMT output no.
01-08 = VISTA-15PMT output no.
17-18 = on-board triggers
Press [∗] to continue.

SUMMARY SCREEN
A summary screen appears showing the programmed settings.
Press [∗] to return to OUTPUT FUNCTION NUMBER prompt.

∗81 ZONE LIST MENU MODE

(press *81 while in Programming mode)
The Zone List Worksheet is on page 29.

Zone lists let you group individual zones for use with certain system actions. Using this mode, simply select an appropriate zone list number, then add the desired zone numbers to be included in that list.
The following table shows the available zone lists and their purposes:

List No.	Used for…	Notes
1, 2	general purpose (GP)	• Any list may include any or all of the system's zone numbers. • A zone list can be assigned to more than one output relay. • Zone List 4: When creating zone list 4 for cross zoning, include only zones assigned to zone types 3, 4, or 5. Do not include zones that have delays (entry/exit zones, interior w/delay) or 24-hour zones, as these zone types may produce unpredictable operation and may not function as intended. See field *85 for Cross Zone Timer option. • Zone List 6: See field *50 for Dial Delay Disable option. • Zone List 7: See field *93 for Unlimited Reports option.
3	chime-by-zone (see field *26 to enable option)	
4	cross zones (see note at right)	
5	night stay zones	
6	**dial delay disable**	
7	**unlimited reports**	
8	general purpose	
9	zones that activate Pager 1	
10	zones that activate Pager 2	
11	zones that activate Pager 3 (VISTA-20P)	
12	zones that activate Pager 4 (VISTA-20P)	

ZONE LIST NO.
Enter the zone list number (01-12) to program (or 00 to exit this mode). Press [∗] to continue.

ENTER ZN NUM.
Enter each zone number (01-64†) to add to the zone list, followed by pressing [∗] (example, 01∗, 02∗, 03∗).
Press 00 to continue.
† VISTA-20PMT = 01-64; VISTA-15PMT = 01-06, 09-34, 49-56.
IMPORTANT: Do not include fire zones in zone lists that are used to STOP device actions.

DEL ZN LIST?
0 = don't delete list; current zone list remains saved
1 = delete this zone list; All zones in the zone list will be deleted.
[∗] to continue

DELETE ZONE?
0 = don't delete zones; save the entire zone list and return to the Zone List No. prompt
1 = go to next prompt to delete zones
[∗] to continue

ZN TO DELETE?
Enter each zone (01-64†) to be deleted from the list, following each with [∗].
00 when done to return to the Zone List No. prompt.
† VISTA-20PMT = 01-64; VISTA-15PMT = 01-06, 09-34, 49-56.

∗82 ALPHA DESCRIPTOR MENU MODE

The system lets you assign zone descriptors for protection zones, keypad panics, and RF receiver supervision faults. Each description can be composed of a combination of up to 3 words selected from a vocabulary of words stored in memory (see Alpha Vocabulary List page). In addition, up to 10 installer-defined words can be added to those already in memory, plus 3 additional words can be assigned as partition descriptors. Thus, when an alarm or trouble occurs in a zone, an appropriate description for that zone's location can be displayed at the keypad. Zone descriptors are recommended for systems using Alpha display keypads, and are necessary if a 4286VIP Phone Module is used.

NOTE: You can also enter zone descriptors when the zone is being defined in ✱56 Menu mode.

4286 NOTE: If using a 4286VIP Phone Module, select from those words in the Alpha Vocabulary List shown in **boldface type**. The phone module will not provide annunciation of the other words.

If a Phone Module is added to an existing system, the Alpha descriptors presently in the system should be reprogrammed, selecting from those words shown in **boldface type** in the Alpha Vocabulary List. The phone module will not provide annunciation of any other words.

PRE-DEFINED DESCRIPTORS

PROGRAM ALPHA

0 = no (quit Alpha mode)
1 = yes
Press [∗] or [#] to continue.

CUSTOM WORDS

0 = no (continue to descriptor programming)
1 = yes (go to custom word programming)
Press 0 to program standard alpha descriptors. The system will then display the descriptor for zone 1.
To program custom words, press 1 (custom words are described later).
Press [∗] to continue.

∗ ZN 01

Descriptor screen for zone 1 appears. To program a descriptor (up to 3 words) for a zone, do the following:

1. Press [∗] plus the desired zone number (existing descriptor, if any, is displayed), then press [∗] plus the zone number again (flashing cursor appears).
2. a. Press [#] plus the 3-digit number from the Alpha Vocabulary List on page 21 for the first word.
   b. Press [6] to accept the word and move the cursor for the next word.
3. Repeat steps 2a and 2b for the second and third words (if used).
4. When all words have been entered, press [8] to save the descriptor for that zone. The flashing cursor disappears.
5. Repeat steps 1-4 to assign a descriptor for the next zone.
6. When all descriptors have been entered, press [∗] + 0 + 0 (or simply press [#]) after the last descriptor has been saved to return to the PROGRAM ALPHA? prompt.
   Enter 0 (no) at the prompt to exit this mode and return to Data Field mode.

ADDING CUSTOM WORDS (up to 10 words)

You can add up to 10 installer-defined words to the built-in vocabulary, which can then be used when programming zone descriptors. Each of the 10 words can actually consist of a word string of one or more words, but no more than *ten* characters can be used for each word or word string.

For custom words, the keys have the following functions:

[4] moves cursor one space to the left.
[6] moves cursor one space to the right.
[8] saves the new word in the system's memory.

1. Select Custom Word mode (enter 1) when the prompt “CUSTOM WORD ?” is displayed.
2. Enter the number (01–10, or 11, 12, 13 for partition descriptors– see below) of the custom word or word string to be created, corresponding to index numbers 245 - 254 respectively. A cursor appears at the beginning of the second line.
   NOTE: Custom words 8, 9, and 10 are “reminder words” that can be programmed to display using Scheduling Mode.
3. Refer to the Character (ASCII) Chart on the next page.
   Press [#], followed by the two-digit entry for the first letter you would like to display (e.g., # 6 5 for “A”). The cursor moves to the right, in position for the next character.
   To delete a character, simply enter the SPACE character (#32) at the unwanted character’s location.
4. Repeat Step 3 to create the desired word(s). Each word can be a maximum of 10 characters (except custom message/partition descriptor word numbers 11, 12, and 13, which can be a maximum of 16 characters).
5. When the word is complete, press the [8] key to save the custom word(s) in the vocabulary list and return to the “CUSTOM WORD ?” display.
6. Repeat Steps 1–5 for other custom words to be entered. To change a custom word, just overwrite it. When all words have been programmed, enter 0 at the “CUSTOM WORD ?” prompt to return to the Program Alpha prompt. Enter 0 again to exit Descriptor mode.

To Assign Partition/Custom Message Descriptors, use Adding Custom Words procedure, but:
VISTA-15PMT: Use word number 11 in step 2. The custom message replaces the standard “DISARMED Ready to Arm” message.
VISTA-20PMT: Use the following word numbers in step 2:
11 = partition 1; 12 = partition 2; 13 = common lobby

ALPHA VOCABULARY LIST (For Entering Zone Descriptors)

	000	*(Word Space)*
		– A –
•	001	**AIR**
•	002	***ALARM** **
	004	ALLEY
	005	AMBUSH
•	006	**AREA**
•	007	**APARTMENT**
•	009	***ATTIC** **
	010	AUDIO
		– B –
•	012	***BABY** **
•	013	***BACK** **
•	014	**BAR**
•	016	***BASEMENT** **
•	017	***BATHROOM** **
•	018	**BED**
•	019	***BEDROOM** **
	020	BELL
•	021	**BLOWER**
•	022	**BOILER**
	023	BOTTOM
	025	BREAK
•	026	**BUILDING**
		– C –
	028	CABINET
•	029	**CALL**
	030	CAMERA
	031	CAR
	033	CASH
	034	CCTV
	035	CEILING
	036	CELLAR
•	037	**CENTRAL**
	038	CIRCUIT
•	040	***CLOSED** **
•	046	**COMPUTER**
	047	CONTACT
		– D –
•	048	**DAUGHTERS**
	049	DELAYED
•	050	***DEN** **
	051	DESK
•	052	***DETECTOR** **
•	053	***DINING** **
	054	DISCRIMINATOR
	055	DISPLAY
•	057	***DOOR** **
•	059	**DOWN**
•	060	**DOWNSTAIRS**
	061	DRAWER
•	062	**DRIVEWAY**
•	064	**DUCT**
		– E –
•	065	**EAST**
	066	ELECTRIC
	067	*EMERGENCY **
	068	ENTRY
•	069	**EQUIPMENT**
•	071	***EXIT** **
	072	EXTERIOR
		– F –
•	073	**FACTORY**
	075	FAMILY
•	076	**FATHERS**
•	077	**FENCE**
•	079	***FIRE** **
•	080	***FLOOR** **
	081	FLOW
	082	FOIL
•	083	**FOYER**
	084	FREEZER
•	085	***FRONT** **
		– G –
•	089	***GARAGE** **
•	090	**GAS**
	091	GATE
•	092	**GLASS**
	093	GUEST
	094	GUN
		– H –
•	095	***HALL** **
•	096	**HEAT**
	098	HOLDUP
	099	*HOUSE **
	100	INFRARED
•	101	***INSIDE** **
	102	INTERIOR
	103	INTRUSION
		– J –
	104	JEWELRY
		– K –
•	105	***KITCHEN** **
		– L –
•	106	***LAUNDRY** **
•	107	**LEFT**
	108	LEVEL
•	109	***LIBRARY** **
•	110	**LIGHT**
	111	LINE
•	113	***LIVING** **
•	114	**LOADING**
	115	LOCK
	116	LOOP
	117	LOW
•	118	**LOWER**
		– M –
•	119	**MACHINE**
	121	MAIDS
	122	*MAIN **
•	123	***MASTER** **
•	125	***MEDICAL** **
	126	MEDICINE
	128	MONEY
	129	MONITOR
•	130	**MOTHERS**
•	131	***MOTION** **
	132	MOTOR
		– N –
•	134	**NORTH**
	135	NURSERY
		– O –
•	136	***OFFICE** **
•	138	***OPEN** **
	139	OPENING
•	140	**OUTSIDE**
	142	OVERHEAD
		– P –
	143	PAINTING
•	144	***PANIC** **
	145	PASSIVE
•	146	***PATIO** **
	147	PERIMETER
•	148	**PHONE**
	150	POINT
	151	*POLICE **
	152	*POOL **
•	153	**POWER**
		– R –
	155	RADIO
•	156	**REAR**
	157	RECREATION
	159	REFRIGERATION
	160	RF
•	161	**RIGHT**
•	162	***ROOM** **
	163	ROOF
		– S –
	164	SAFE
	165	SCREEN
	166	SENSOR
•	167	**SERVICE**
•	168	***SHED** **
	169	SHOCK
•	170	***SHOP** **
	171	SHORT
•	173	***SIDE** **
	174	SKYLIGHT
	175	*SLIDING **
•	176	***SMOKE** **
•	178	**SONS**
•	179	**SOUTH**
	180	SPRINKLER
•	182	**STATION**
	184	STORE
•	185	***STORAGE** **
	186	STORY
	190	*SUPERVISED **
	191	SUPERVISION
	192	SWIMMING
	193	SWITCH
		– T –
	194	TAMPER
	196	TELCO
	197	TELEPHONE
•	199	**TEMPERATURE**
	200	THERMOSTAT
•	201	**TOOL**
	202	TRANSMITTER
		– U –
•	205	**UP**
•	206	**UPPER**
•	207	***UPSTAIRS** **
•	208	***UTILITY** **
		– V –
	209	VALVE
	210	VAULT
	212	VOLTAGE
		– W –
	213	WALL
	214	WAREHOUSE
•	216	**WEST**
•	217	***WINDOW** **
•	219	**WING**
	220	WIRELESS
		– X –
	222	XMITTER
		– Y –
	223	YARD
		– Z –
	224	ZONE (No.)
•	225	***ZONE** **
•	226	**0**
•	227	**1**
•	228	***1ST** **
•	229	**2**
•	230	***2ND** **
•	231	**3**
•	232	***3RD** **
•	233	**4**
•	234	**4TH**
•	235	**5**
•	236	**5TH**
•	237	**6**
•	238	**6TH**
•	239	**7**
•	240	**7TH**
•	241	**8**
•	242	**8TH**
•	243	**9**
•	244	**9TH**
	245	Custom Word #1
	246	Custom Word #2
	247	Custom Word #3
	248	Custom Word #4
	249	Custom Word #5
	250	Custom Word #6
	251	Custom Word #7
	252	Custom Word #8
	253	Custom Word #9
	254	Custom Word #10

Note: Bulleted (•) words in **boldface type** are those that are also available for use by the 4286 Phone Module. If using a Phone module, and words other than these are selected for Alpha descriptors, the module will not provide annunciation of those words.

Italicized words followed by an asterisk indicate those words supported by the 6160V/6150V Voice Keypads

CHARACTER (ASCII) CHART (For Adding Custom Words)

32	(space)	41	)	50	2	59	;	68	D	77	M	86	V
33	!	42	*	51	3	60	<	69	E	78	N	87	W
34	"	43	+	52	4	61	=	70	F	79	O	88	X
35	#	44	,	53	5	62	>	71	G	80	P	89	Y
36	$	45	–	54	6	63	?	72	H	81	Q	90	Z
37	%	46	.	55	7	64	@	73	I	82	R		
38	&	47	/	56	8	65	A	74	J	83	S		
39	'	48	0	57	9	66	B	75	K	84	T		
40	(	49	1	58	:	67	C	76	L	85	U		

SETTING SCHEDULES

(Installer Code + [#] + [6] [4])

The system provides schedules, which can be used to automatically control 11 types of system events at pre-defined times. Some events are reserved for the installer only.

NOTES:

- The master code can only access schedules 01-16 (VISTA-15PMT = 01-04) and events 00-07.
- System clock must be set before schedules can take effect.
- Programmed schedules do not take effect until the next scheduled "start" time. (e.g., if programming a schedule time window for 8AM to 5PM, the schedule does not take effect until 8AM after the schedule has been programmed.)

ENTER SCHED NO.

VISTA-20PMT: 01-16 = end-user schedules
17-32 = installer-only schedules
VISTA-15PMT: 01-04 = end-user schedules
05-08- = installer-only schedules

[∗] to continue.
To Quit, enter 00.

Enter the desired schedule number.

ENTER EVENT

00 = clear event
01 = Relay On/Off
02 = User Access
03 = Latch Key Report to Pager (sent to all pagers in the user's partition; message sent is 777-7777. User must be enabled for paging and system must be armed before reporting can occur.)
04 = Forced Stay Arming (Forced bypass is automatically enabled regardless of setting in field *23)
05 = Forced Away Arming (Forced bypass is automatically enabled regardless of setting in field *23)
06 = Auto Disarm
07 = Display "Reminder"
10 = Display custom words (if selected, system displays custom words 8, 9, and 10 at defined time. Can be used as installer's reminder message to the end user); programmable by installer only
11 = Periodic Test Report (see key commands in **Test Report Code**, data field *64**,** to quickly set periodic test reporting intervals); programmable by installer only
[∗] to continue.

Enter the desired event number for event you want to occur at a specified time.
Events 10-11 are reserved for the installer only.

Latch key report (option 03) is sent to all pagers in the user's partition and is active only when the system is armed (message sent is 777-7777). User must be enabled for paging.

NOTE: Events 07 and 10 cause the keypad to beep every 30 seconds when messages are displayed. Stop the beeps by pressing any key.

DEVICE NUMBER (for event 1 relay on/off)

VISTA-20PMT: 01-18;
VISTA-15PMT: 01-08, 17, 18
[∗] to continue.

Enter the physical device number as programmed in ∗79 Menu Mode, then press [*] to continue to the "Start" prompt.
Device numbers 17 and 18 designate built-in triggers 1 and 2 respectively.

GROUP NUMBER (for event 2 user access)

1-8; [∗] to continue.

PARTITION (VISTA-20PMT; for events 3-7,10,12)

0 = all partitions
1 = partition 1
2 = partition 2
3 = common
[∗] to continue

START

01-12 = hour
00-59 = minute
0 = AM; 1 = PM
To select days, position the cursor under the desired days using the [∗] key to move forward, then press "1" to select the day.
[∗] to continue

Enter the event's start time and days of the week to occur.

STOP (for events 1 relay on/off; 2 user access; 3 latch key report)

See START for entries. [∗] to continue.
Enter the event's stop time and days of the week to occur.

REPEAT

0 = do not repeat
1 = repeat schedule weekly
2 = repeat schedule biweekly (every other week)
3 = repeat schedule every third week
4 = repeat schedule every fourth week (28 days)
[∗] to continue

Enter the desired repeat option for this schedule.
e.g., To make a schedule that happens everyday you would select all days with a repeat count of 1. To make a schedule that runs for one week then stops, select everyday with a repeat count of 0.

RANDOMIZE (for events 01 and 11)

0 = no; 1 = yes
[∗] to continue and return to ENTER SCHED NO. prompt to program the next schedule.

If selected, the scheduled start and stop times will vary within 60 minutes of the "hour" time. For example, if a schedule is set to start at 6:15pm, it will do so the first time 6:15pm arrives, but on subsequent days it will start anytime between 6:00 and 6:59 p.m.

NOTE: Do not use the random option if the start and stop times are within the same "hour" setting, otherwise unpredictable results may occur (e.g., the randomized stop time may occur before the start time).

AVS SYSTEM ENABLE and QUICK PROGRAMMING COMMANDS

Applies to an AVS system using an ECP connection to the control.

1. Install the AVS module according to its instructions.
2. Use one of the control's AVS Quick Program commands as follows (see Quick Program Command Results below for results of each command):
   - **installer code + [#] + 0 + 3:** enable AVS operation without panel sounds on the AVST speaker
   - **installer code + [#] + 0 + 4:** enable AVS operation and enable panel sounds on the AVST speaker
3. Use data field ∗55 Dynamic Signaling Priority to select the desired reporting paths (phone line and/or GSMV) and path for AAV communication.

   To undo the Quick Command programming if necessary, use the following commands:
   - **installer code + [#] + 0 + 5**: remove all options set by [#] + 03 quick command
   - **installer code + [#] + 0 + 6**: remove all options set by [#] + 04 quick command

Quick Program Command Results
When either the #03 or #04 Quick Program command is used, the following are automatically programmed and no longer available for other control panel purposes.

Pre-Programmed	**#03 Command**		**#04 Command**	
Output Function No. (∗80 mode)	**VISTA-15PMT series** 22 (zone type 60, relay 07) 23 (zone type 61, relay 08) 24 (zone type 62, relay 08)	**VISTA-20PMT series** 46 (zone type 60, relay 15) 47 (zone type 61, relay 16) 48 (zone type 62, relay 16)	**VISTA-15PMT series** Same as #03 plus: 17 (zone type 14, relay 05) 18 (zone type 22, relay 05) 19 (zone type 39, relay 06) 20 (zone type 33, relay 06) 21 (zone type 36, relay 06)	**VISTA-20PMT series** Same as #03 plus: 41 (zone type 14, relay 13) 42 (zone type 22, relay 13) 43 (zone type 39, relay 14) 44 (zone type 33, relay 14) 45 (zone type 36, relay 14)
Output Relay No. (∗79 mode)	07 (addr 08, relay pos 2) 08 (addr 08, relay pos 1)	15 (addr 11, relay pos 2) 16 (addr 11, relay pos 1)	Same as #03 plus: 05 (addr 08, relay pos 4) 06 (addr 08, relay pos 3)	Same as #03 plus: 13 (addr 11, relay pos 4) 14 (addr 11, relay pos 3)
Protection Zone (∗56/∗58 mode)	4229 zn 24 (zt 81, addr 08)	4229 zn 48 (zt 81, addr 11)	Same as #03 command	Same as #03 command
Device Address	address 08 (AVS module)	address 11 (AVS module)	Same as #03 command	Same as #03 command
Data Field ∗91	AAV enabled	AAV enabled	AAV enabled	AAV enabled

UPLOADING/DOWNLOADING VIA THE INTERNET

UL: Up/downloading via the Internet has not been evaluated by UL.

The control, when used with an appropriate communication device (ex. 7845i-ent, 7845i-GSM), supports upload/download programming capability via the Internet or a Private local area network (Intranet) instead of using telephone lines. This allows site maintenance independent of central station monitoring, and modification to sites globally via the Internet or through a private LAN.

Refer to the instructions provided with the communication device for information regarding its installation, programming, and registration. The System Requirements table below lists two sets of system requirements, depending upon whether you intend to communicate over the Internet using AlarmNet Services, or whether you are communicating over a Private LAN (Intranet).

System Requirements

Internet Communication	**Intranet (Private LAN) Communication**
At the Installation Site: • Appropriate Internet/Intranet Communication Module • 7720P Programmer • Internet Access and Cable/DSL Modem • Cable/DSL Router (optional, if connecting more than one device) • Control Panel	At the Installation Site: • Appropriate Internet/Intranet Communication Module • 7720P Programmer • Ethernet Network Connection • Control Panel

To set up the control panel, do the following:
1. Connect the communication device to the control panel's ECP (keypad) terminals.
2. Internet Users: Connect the communication device to the Internet via a cable/DSL modem and router.
   Intranet Users: Connect the communication device to the Intranet (LAN) via the appropriate Ethernet connection.
3. Enable the communication device in the control panel (using ∗29 Menu mode) to enable alarm reporting and module supervision.
4. Using the communication device's programming menus (via ∗29 Menu mode or 7720P programmer), program the communication device for address 3 and program the device's other options as required.
5. Register the communication device with AlarmNet. The communication device must be registered before downloading or alarm reporting can take place.

To perform upload/download functions:
1. Connect the computer to the Internet and start the Compass downloading software.
2. Open the control's account, then select the Communications function and click the **Connect** button.
3. At the Connect screen, check that the control's MAC address is entered and the TCP/IP checkbox is checked.
4. Click **Connect**. The Internet connection to the control is made automatically via AlarmNet.
5. Once connected, use the Compass downloading software as normal to perform upload/download functions.

∗29 COMMUNICATION DEVICE MENU MODE (Pass-Through Programming)

This mode is for programming an IP, GSM, or IP/GSM Communicator Module using an alpha keypad. Alternatively, these options can be programmed via the AlarmNet Direct website. After programming is complete, the module must be registered with AlarmNet before reporting via the communication device can occur. Refer to the device's instructions for registration procedures.

NOTE: The module must be set to device address 3.

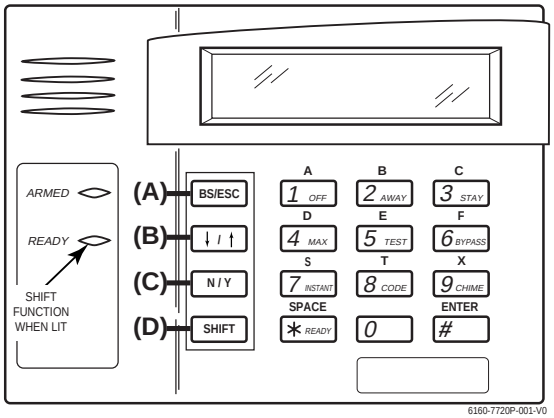
IMPORTANT: The use of an IP/GSM Communicator Module requires an AlarmNet–I account. Please obtain the account information from the central station prior to programming this module.

Using an Alpha Keypad as a 7720P Programming Tool

When programming with ∗29 menu mode, the alpha keypad mimics the functions of the 7720P Programming Tool. See figure to right and table below for 7720P key functions. Each key has two possible functions: a normal function and a SHIFT function.

Normal functions: The numeric values labeled directly on the keys and the left-hand functions shown in diagram on the ABC keys. To perform a normal key function, simply press the desired key.

SHIFT functions: Those functions shown in diagram above the numerical keys and the right-hand functions shown on the ABC keys. To perform a SHIFT key function, press SHIFT key (D key), then press the desired function key (shift function is indicated by the lit READY LED).



7720P Emulation Template for Alpha Keypads

∗29 IP/GSM Program Mode

Press ∗29 while in Data Field Programming mode. The following prompts appear.

ENABLE IP/GSM? 0=No, 1=Yes	**Enable IP/GSM?** 0 = no, not using IP or GSM; 1 = yes using IP and/or GSM module [∗] to continue [Default = 0 (no IP and/or GSM)]	If using a communication device, enter 1 at this prompt and enter 1-Prog at the next prompt to program the device. Use the communication device's Installation Guide for details of the device's programming prompts and instructions for registration.
1=PROG 2=DIAG 0=QUIT	**Programming / Diagnostics Select** 1= Prog (program the IP/GSM options) 2 = Diag (enter diagnostic mode) 0 = Quit; returns to data field programming mode	Select whether you want to program the communication device or enter the device's diagnostic mode. **Diagnostic Mode Note:** Diagnostic mode option available only for communicators with firmware version 2.4.16 or higher.

Normal and SHIFT key Functions While in ∗29 Menu Mode

Key	Normal Key Function	SHIFT Key Function
(A) = BS/ESC	[BS]: Press to delete entry Also, can reset EEPROM defaults †	[ESC]: Press to quit Program Mode
(B) = ↓/↑	[↓]: Scroll down programming	[↑]: Scroll up programming
(C) = N/Y	[N]: Press for "NO" answer	[Y]: Press SHIFT-Y for "YES" answer
(D) = SHIFT	Press before pressing a SHIFT key function. Will light READY LED. LED goes out once a key is pressed. Press again for each SHIFT function desired.	
1/A	[1]: For entering the number 1	[A]: Used for entering C.S. ID number
2/B	[2]: For entering the number 2	[B]: Used for entering C.S. ID number
3/C	[3]: For entering the number 3	[C]: Used for entering C.S. ID number
4/D	[4]: For entering the number 4	[D]: Used for entering C.S. ID number
5/E	[5]: For entering the number 5	[E]: Used for entering C.S. ID number
6/F	[6]: For entering the number 6	[F]: Used for entering C.S. ID number
7/S	[7]: For entering the number 7	[S]: Press to display diagnostic status
8/T	[8]: For entering the number 8	[T]: Press to send TEST messages
9/X	[9]: For entering the number 9	[X]: Press to reset the IP/GSM
[∗] / SPACE	[∗]: Used to select programming options	[SPACE]: Not used
0	[0]: For entering the number 0	
[#] / ENTER	[#] / ENTER: Press to accept entries	No SHIFT function

† Active only when the "REVIEW?" prompt is displayed

ZONE TYPE DEFINITIONS

Zone types define the way in which the system responds to faults in each zone.

Type 00 Zone Not Used

Program a zone with this zone type if the zone is not used.

Type 01 Entry/Exit Burglary #1

- Assign to zones that are used for primary entry and exit.
- Provides entry delay when zone is faulted if control is armed in the Away, Stay, or Night-Stay modes.
- No entry delay provided when the panel is armed in the Instant/Maximum mode.
- Entry delay #1 is programmable for each partition (field *35).
- Exit delay begins whenever the control is armed, regardless of the arming mode selected, and is programmable (field ✱34).

Type 02 Entry/Exit Burglary #2

- Assign to zones that are used for entry and exit and require more time than the primary entry/exit point.
- Provides a secondary entry delay, similar to entry delay #1.
- Entry delay #2 is programmable for each partition (field *36).
- Exit delay is same as described for Type 01.

Type 03 Perimeter Burglary

- Assign to all sensors or contacts on exterior doors and windows.
- Provides an instant alarm if the zone is faulted when the panel is armed in the Away, Stay, Night-Stay, Instant or Maximum modes.

Type 04 Interior Follower

- Assign to a zone covering an area such as a foyer, lobby, or hallway through which one must pass upon entry (to and from the keypad).
- Provides a delayed alarm (using the programmed entry 1 time) if the entry/exit zone is faulted first. Otherwise this zone type gives an instant alarm.
- Active when the panel is armed in the Away mode.
- Bypassed automatically when the panel is armed in the Stay or Instant modes; if armed in Night-Stay mode, zones assigned to zone list 05 (night-stay zone list) are not bypassed when system armed in Night-Stay mode.

Type 05 Trouble by Day/Alarm by Night

- Assign to a zone that contains a foil-protected door or window (such as in a store), or to a zone covering a sensitive area such as a stock room, drug supply room, etc.
- Can also be used on a sensor or contact in an area where immediate notification of an entry is desired.
- Provides an instant alarm if faulted when armed in the Away, Stay, Night-Stay, Instant or Maximum (night) modes.
- During the disarmed state (day), the system will provide a latched trouble sounding from the keypad (and a central station report, if desired).

Type 06 24-hr Silent Alarm

- Usually assigned to a zone containing an emergency button.
- Sends a report to the central station but provides no keypad display or sounding.

Type 07 24-hour Audible Alarm

- Assign to a zone that has an emergency button.
- Sends a report to the central station, and provides an alarm sound at the keypad, and an audible external alarm.

Type 08 24-hour Auxiliary Alarm

- Assign to a zone containing an emergency button, or to a zone containing monitoring devices such as water or temperature sensors.
- Sends a report to the central station and provides an alarm sound at the keypad. (No bell output.)

Type 09 Supervised Fire

- Provides a fire alarm on short circuit and a trouble condition on open circuit. A fire alarm produces a pulsing bell output.
- This zone type is always active and cannot be bypassed.

Type 10 Interior w/Delay

- Provides entry delay (using the programmed entry time), if tripped when the panel is armed in the Away mode.
- Entry Delay 1 begins whenever sensors in this zone are violated, regardless of whether or not an entry/exit delay zone was tripped first.
- Bypassed when the panel is armed in the Stay or Instant modes; if armed in Night-Stay mode, zones assigned to zone list 05 (night-stay zone list) are not bypassed when system armed in Night-Stay mode.

Type 12 Monitor Zone

- Works as a dynamic monitor of a zone fault/trouble (not alarm). In the case of a short/open, the message, "*ALARM*-24 Hr. Non-Burg. -#XXX " (where XXX is the zone number) will be sent to the Central Station. The system keypad will display a “check” message indicating the appropriate zone (but keypad beeping does not occur). Upon restoral of the zone, the message, "*RESTORE*-24 Hr. Non-Burg. -#XXX " will be sent to the Central Station.
- The “check” message will automatically disappear from the keypad dynamically, when the zone restores; a user code + off sequence is not needed to reset the zone.
- Faults of this zone type are independent of the system, and can exist at the time of arming without interference.
- Since this is a “trouble” zone type, do not use this zone type with relays set to activate upon “alarm.”

Type 14 24 Hour Carbon Monoxide Monitor

- Assigned to any zone with a carbon monoxide detector.
- A carbon monoxide alarm produces keypad and detector sounding (does not affect bell output).
- Always active and cannot be bypassed.

Type 15 Medical

- Usually assigned to a zone containing an emergency button.
- Sends report to the central station (CID code 100) and sounds alarm at the keypad (no bell output).
- UL Installations: may not use this zone type in UL installations.

Type 16 Fire w/Verification

- Causes a fire alarm when zone is shorted, but only after alarm verified.
- Verifies alarm by resetting smoke detectors after short is detected (removes power 7 seconds for zone 1, 3 seconds for trigger output). Another short circuit within 90 seconds triggers fire alarm.
- Provides a trouble response when zone is open.

Type 20 Arm-Stay (BR only)

- Arms the system in Stay mode when the zone is activated.
- Pushbutton units send the user number to the central station when arming or disarming.
- User number for button must be assigned.

Type 21 Arm-Away (BR only)

- Arms the system in Away mode when the zone is activated.
- Pushbutton units send the user number to the central station when arming or disarming.
- User number for button must be assigned.

Type 22 Disarm (BR only)

- Disarms the system when the zone is activated.
- User number for button must be assigned.

Type 23 * No Alarm Response

- Can be used on a zone when an output relay action is desired, but with no accompanying alarm (e.g., lobby door access).

Type 24 Silent Burglary

- Usually assigned to all sensors or contacts on exterior doors and windows where bells and/or sirens are NOT desired.
- Provides an instant alarm, with NO audible indication at any keypad or external sounder, if the zone is faulted when the system is armed in the Away, Stay, Instant, or Maximum modes.
- A report is sent to the central station.

Type 77 Keyswitch

- Assign to zone wired to a keyswitch.
- Do not use input type “BR” devices with this zone type.

Type 81 AAV Monitor Zone

- Assign to zone connected to AAV module.
- Monitors 2-way voice sessions as follows:
  - When the zone is faulted, all alarm sounding and dialer reporting stops, except for fire alarms, which immediately terminate the voice session and cause a fire report to be sent.
  - When the zone is restored (session ended), sounding resumes (if bell timeout not expired) and reports that were stopped are sent.

Types 90-93 Configurable

Allows for various custom responses. Options include response to entry/exit delays, response opens/shorts, types of alarm/trouble sounding, dial delay, and unique Contact ID report codes. Types 92 and 93 can only be programmed via downloader. UL installations: Zone Types 90 -93 may not be used as fire or burglar alarm zones on fire or UL burglar alarm installations.

* The system can still be armed when these zone types are faulted.

UL NOTICES

1. Entry Delay No. 1 and No. 2 (fields ∗35, ∗36) cannot be greater than 30 seconds for UL Residential Burglar Alarm installations, and entry delay plus dial delay should not exceed 1 minute. For UL Commercial Burglar Alarm installations, total entry delay may not exceed 45 seconds.
2. For UL Commercial Burglar Alarm and UL Residential Burglar Alarm installations with line security, total exit delay time must not exceed 60 seconds.
3. The maximum number of reports per armed period (field ∗93) must be set to "0" (unlimited) for UL installations.
4. Periodic testing (see scheduling mode) must be at least every 24 hours.
5. Alarm Sounder plus Auxiliary Power currents must not exceed 600mA total for UL installations (Aux power 500mA max.).
6. All partitions must be owned and managed by the same person(s).
7. All partitions must be part of one building at one street address.
8. If used, the audible alarm device(s) must be placed where it/they can be heard by all partitions.
9. For UL commercial burglar alarm installations the control unit must be protected from unauthorized access. The tamper switch installed to protect the control unit enclosure door is suitable for this purpose.
10. Remote downloading without an alarm company technician on-site (unattended downloading) is not permissible for UL installations.
11. Auto-disarming is not a UL Listed feature.
12. As SIA limits for delay of alarm reporting and sounding can exceed UL limits for commercial and residential applications, the following UL requirements per UL681 are provided:
    The maximum time that a control unit shall be programmed to delay the transmission of a signal to a remote monitoring location, or to delay the energizing of a local alarm sounding device to permit the alarm system user to enter and disarm the system, or to arm the system and exit shall not exceed:
    a) 60 seconds for a system with standard line security or encrypted line security,
    b) 120 seconds for a system without standard line security or encrypted line security, or
    c) 120 seconds for a system that does not transmit an alarm signal to a remote monitoring location.
13. This control is not intended for bank safe and vault applications.

SIA QUICK REFERENCE GUIDE

1. ∗31 Single Alarm Sounding per Zone: If "0" selected, "alarm sounding per zone" will be the same as the "number of reports in armed period" set in field ∗93 (1 if one report, 2 if 2 reports, unlimited for zones in zone list 7).
2. ∗34 Exit Delay: Minimum exit delay is 45 seconds.
3. ∗35/*36 Entry Delay 1 and 2: Minimum entry delay is 30 seconds.
4. ∗37 Audible Exit Warning: Feature always enabled; field does not exist.
5. ∗39 Power Up in Previous State: Must be "1," power up in previous state.
6. ∗40 PABX Access Code or Call Waiting Disable: If call waiting is used, call waiting disable option in field *91 must be set.
7. ∗50 Burglary Dial Delay: Delay must be minimum of 30 seconds.
8. ∗59 Exit Error Alarm Report Code: Always enabled.
9 ∗68 Cancel Report Code: Default is "code enabled."
10. ∗69 Recent Closing Report Code: Always enabled.
11. ∗91 Option Selection: Exit Delay option should be enabled. If call waiting is used, Call Waiting Disable must be set to "1" (enabled).
12. ∗93 No. reports in Armed Period: Must be set for 1 or 2 report pairs.
13. Cross zone timer programming is set in field ∗85; cross zone pairs are assigned in zone list 4 using ∗81 Zone List mode.
14. Duress code is assigned by using the "add a user code" procedure found in the User Guide. Enable Duress code reporting by programming zone 92 using ∗56 Zone Programming mode.
15. Fire alarm verification is a built-in system feature when a zone is programmed for zone type 16.

WORKSHEET for SCHEDULES

(installer code + [#] + [6] [4]; *master code can only access schedules 01-16 for VISTA-20PMT, 01-04 for VISTA-15PMT, and events 00-07 for both controls; VISTA-15PMT supports up to 8 schedules, VISTA-20PMT supports up to 32 schedules*)

No.	**Event** (see list below)	**Device No.** for "01" events: enter 01-18	**Group No.** for "02" events: enter 1-8	**Partition** for "04-06" events: enter 1, 2, or 3 (VISTA-20PMT)	**Start Time/ Days**	**Stop Time/ Days**	**Repeat** (1-4)	**Random** (yes/no)
01								
02								
03								
04								
05								
06								
07								
08	[V15P: 11]				[V15P: 5am/tue]		[V15P: 4]	[V15P: 1]
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32	[V20P: 11]				[V20P: 5am/fri]		[V20P: 4]	[V20P: 1]

Events:

Master/Installer		Installer Only
00 = clear event	04 = forced STAY arm	10 = display custom words 8-10
01 = device on/off	05 = forced AWAY arm	11 = periodic test report
02 = user access	06 = auto disarm	
03 = latch key report	07 = display "reminder"	

Repeat Options: 0 = none; 1 = repeat weekly; 2 = repeat every other week; 3 = repeat every third week; 4 = repeat every fourth week

WORKSHEET for ∗56 ZONE PROGRAMMING

(VISTA-15PMT supports up to 32 zones: 1-6, 9-34, 49-56) [default shown in brackets]

Zone	Zn Type	Part.	Report	Hardwire Type	Rsp. Time	Location
1	[09]	[1]	[10]	[EOL]	[1]	
2	[01]	[1]	[10]	[EOL]	[1]	
3	[03]	[1]	[10]	[EOL]	[1]	
4	[03]	[1]	[10]	[EOL]	[1]	
5	[03]	[1]	[10]	[EOL]	[1]	
6	[03]	[1]	[10]	[EOL]	[1]	
7	[03]	[1]	[10]	[EOL]	[1]	
8	[03]	[1]	[10]	[EOL]	[1]	

Zone	Zn Type	Part.	Report	Input Type	Loop	Serial No.	Location
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							
48							
49		[1]		[BR]			
50		[1]		[BR]			
51		[1]		[BR]			
52		[1]		[BR]			
53		[1]		[BR]			
54		[1]		[BR]			
55		[1]		[BR]			
56		[1]		[BR]			
57		[1]		[BR]			
58		[1]		[BR]			
59		[1]		[BR]			
60		[1]		[BR]			
61		[1]		[BR]			
62		[1]		[BR]			
63		[1]		[BR]			
64		[1]		[BR]			
95	[09]	N/A	[01,00]	N/A	N/A	N/A	keypad [1] / [∗]
96	[15]	N/A	[01,00]	N/A	N/A	N/A	keypad [3] / [#]
99	[06]	N/A	[01,00]	N/A	N/A	N/A	keypad [∗] / [#]

NOTES:

Zone Type: see chart in ∗56 Zone Programming Menu Mode section;

Report Code: enabled if any digit entered as 1st digit;

Hardwire Type (zns 2-8):
0 = EOL 3 = ZD
1 = NC 4 = DB
2 = NO

Input Type:
2 = AW (zones 9-48)
3 = RF (zones 9-48)
4 = UR (zones 9-48)
5 = BR (zones 49-64)
NOTE: Zones 9-16 not available if zone doubling enabled.

Response Time:
0 = 10msec
1 = 350msec
2 = 700msec
3 = 1.2 sec

Reserved Zones

91 = addressable device report enable/disable default zone type = [05].

92 = Duress report enable/disable

WORKSHEET for ∗57 FUNCTION KEY PROGRAMMING

Option	Function	A P1	A P2	A com	B P1	B P2	B com	C P1	C P2	C com	D P1	D P2	D com	Comments
01	Paging													
02	Time Display													
03	Arm AWAY													
04	Arm STAY													
05	Arm NIGHT-STAY													
06	Step Arming													
07	Device Activation													Device:
08	Comm. Test													
09	Macro Key 1													Assign each macro key to only a single partition. †
10	Macro Key 2													Assign each macro key to only a single partition. †
11	Macro Key 3													Assign each macro key to only a single partition. †
12	Macro Key 4													Assign each macro key to only a single partition. †
00	Emergency Keys:	zone 95			zone 99			zone 96			paging			
	Personal Emergency										n/a			
	Silent Alarm										n/a			
	Audible Alarm										n/a			
	Fire										n/a			

Emergency Keys: A = paired keys [1] / [∗] (zone 95); B = paired keys [∗] / [#] (zone 99); C = paired keys [3] / [#] (zone 96)
† There are only four macros system-wide.

WORKSHEET for ∗79 RELAY/POWERLINE CARRIER DEVICE PROGRAMMING

(Must program before using *80)

	OUTPUT TYPE			
	Relay		X10	
Output No.	Module Addr.	Pos (1-4)	Unit No.	Description
01				
02				
03				
04				
05				
06				
07				
08				

	OUTPUT TYPE (09-16 apply to VISTA-20PMT only)			
	Relay		X10	
Output No.	Module Addr.	Pos (1-4)	Unit No.	Description
09				
10				
11				
12				
13				
14				
15				
16				
17	On-Board Trigger 1			norm output =
18	On-Board Trigger 2			norm output =

WORKSHEET for ∗81 ZONE LIST PROGRAMMING

Fill in the required data on the worksheet below and follow the procedure in the installation manual as you enter the data during the displays and prompts that appear in sequence.

NOTE: Record desired zone numbers below, noting that a list may include *any* or *all* of system's zone numbers.

List No.	Used For…	Contains These Zones…
01	General Purpose (GP)	
02	General Purpose	
03	Chime-by-Zone or GP	(see field *26 for Chime-by-Zone option)
04	Cross Zones	NOTE: Cross zoning takes effect only after Exit Delay expires. See field *85 for Timer option.
05	Night-Stay Zones or GP	
06	Dial Delay Disable	(see field *50 for Dial Delay Disable option)
07	Unlimited Reports	(see field *93 for Unlimited Reports option)
08	General Purpose	
09	Zones activating pager 1	
10	Zones activating pager 2	
11	Zones activating pager 3	(VISTA-20PMT)
12	Zones activating pager 4	(VISTA-20PMT)

WORKSHEET for ∗80 OUTPUT FUNCTION PROGRAMMING

Fill in the required data on the worksheet below and follow the programming procedure in the installation manual as you enter the data during the displays and prompts that appear in sequence.

Notes: **1.** For Relays, 4229 and 4204 devices are programmed in *79, *80, and *81 modes.
2. For Powerline Carrier devices (plcd), field ✱27 must be programmed with a House Code.
3. Tampers of expansion units cannot be used to operate devices.

Output Function Number (V20P=1-48) (V15P=1-24)	Activation Type and Detail				Partition Number (P) (if using ZT trig) 0 = any 1 = partition 1 2 = partition 2 3 = common	Event (for zone list/activated by)		Action 0 = off 1 = close 2 secs 2 = stay closed 3 = pulse 4 = toggle 5 = duration 1†† 6 = duration 2††	Output Number V20P=1-18 V15P=1-8, 17, 18	Device Type R = relay T = trigger X = X10
	Activated by 0=delete 1=zn list 2=zn type 3=zn no.	Zone List (ZL) 1-8 = list	Zone Type (ZT) (see table below)	Zone No. (ZN) 00=none V20P: 01-64 V15P: 01-06, 09-34, 49-56		By Zone List 0 = restore 1 = alarm 2 = fault 3 = trouble	By Zone No. 0 = restore 1 = alrm/flt/trbl			
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
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35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										
46										
47										
48										

ZONE TYPE/SYSTEM OPERATION – Choices for Zone Types are:

00 = Not Used
01 = Entry/Exit#1
02 = Entry/Exit#2
03 = Perimeter
04 = Interior Follower
05 = Trouble Day/Alarm Night
06 = 24 Hr Silent
07 = 24 Hr Audible
08 = 24 Hr Aux
09 = Fire
10 = Interior w/Delay
12 = Monitor Zone
14 = Carbon Monoxide§§
15 = Medical
16 = Fire w/Verification
23 = No Alarm Response
24 = Silent Burglary
77 = Keyswitch
81 = AAV Monitor Zone
90-91 = Configurable

§§ when used with an output function, the carbon monoxide zone type activates only upon CO alarms. Does not activate for trouble conditions.

Choices for System Operation are:

20 = Arming–Stay
21 = Arming–Away
22 = Disarming (Code + OFF)
31 = End of Exit Time
32 = Start of Entry Time
33 = Any Burglary Alarm
36 = **At Bell Timeout***
38 = Chime
39 = Any Fire Alarm
40 = Bypassing
41 = **AC Power Failure
42 = **System Battery Low
43 = Communication Failure
52 = Kissoff
54 = Fire Zone Reset
58 = Duress
60 = AAV Trigger
61 = AVS/GSMV session begin §
62 = AVS/GSMV session end §
66 = Function key†
67 = Bell Failure
68 = TELCO Line Fault
78 = Keyswitch red LED†††
79 = Keyswitch green LED†††

Note: In normal operation mode:
Code + # + 7 + NN Key Entry **starts** Device
Code + # + 8 + NN Key Entry **stops** Device

** Use 0 (any) for Partition No. (P) entry.
*** Or at Disarming, whichever occurs earlier.
† Use *57 Menu mode to assign the function key.
†† Duration is set in program field *177.
††† Device action not used for these choices.
§ automatically set when appropriate AVS Quick Command performed.

TABLE OF DEVICE ADDRESSES

This Device	Uses Address	Reports as ††	Enabled By...
RF Receiver	00	100	*56 zone programming: input device type entry
AUI (touchscreen) 1	01	n/a	Automatic if field *189 enabled for AUI 1
AUI (touchscreen) 2	02	n/a	Automatic if field *189 enabled for AUI 2
AUI (touchscreen) 3	05**	n/a	Automatic if field *189 enabled for AUI 3
AUI (touchscreen) 4	06**	n/a	Automatic if field *189 enabled for AUI 4
Communication Device (LRR)	03	103	automatic if communication device enabled in *29 menu mode
4286 Voice Module	04	104	automatic if phone module access code field *28 enabled
Zone Expanders (4219/4229):			*56 zone programming: input device type entry, then:
module 1 (for zones 09 - 16)	07	107	automatic if zone no. 9-16 entered as AW type or relay assigned
module 2 (for zones 17 - 24)	08	108	automatic if zone no. 17-24 entered as AW type or relay assigned
module 3 (for zones 25 - 32)	09**	109	automatic if zone no. 25-32 entered as AW type or relay assigned
module 4 (for zones 33 - 40)	10**	110	automatic if zone no. 33-40 entered as AW type or relay assigned
module 5 (for zones 41 - 48)	11**	111	automatic if zone no. 41-48 entered as AW type or relay assigned
Relay Modules (4204):			*79 output device programming: device address prompt:
module 1	12	112	entered at device address prompt
module 2	13	113	entered at device address prompt
module 3	14**	114	entered at device address prompt
module 4	15**	115	entered at device address prompt
Keypads:			data field programming as listed below:
keypad 1	16	n/a	always enabled, all sounds enabled.
keypad 2	17	n/a	data field *190
keypad 3	18	n/a	data field *191
keypad 4	19	n/a	data field *192
keypad 5	20	n/a	data field *193
keypad 6	21	n/a	data field *194
keypad 7	22	n/a	data field *195
keypad 8	23	n/a	data field *196
RIS Communication	25	n/a	automatic
5800TM Module	28	n/a	automatic

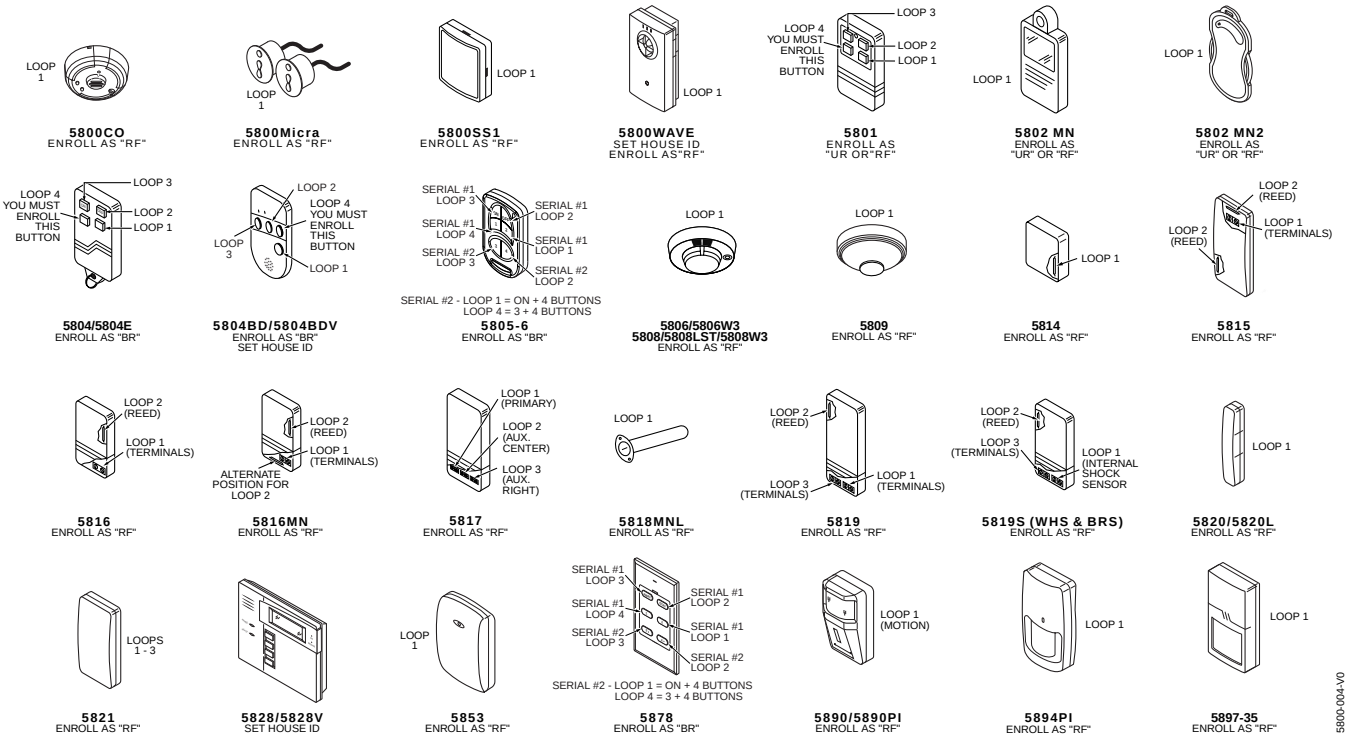
** These module addresses apply to VISTA-20PMT only.

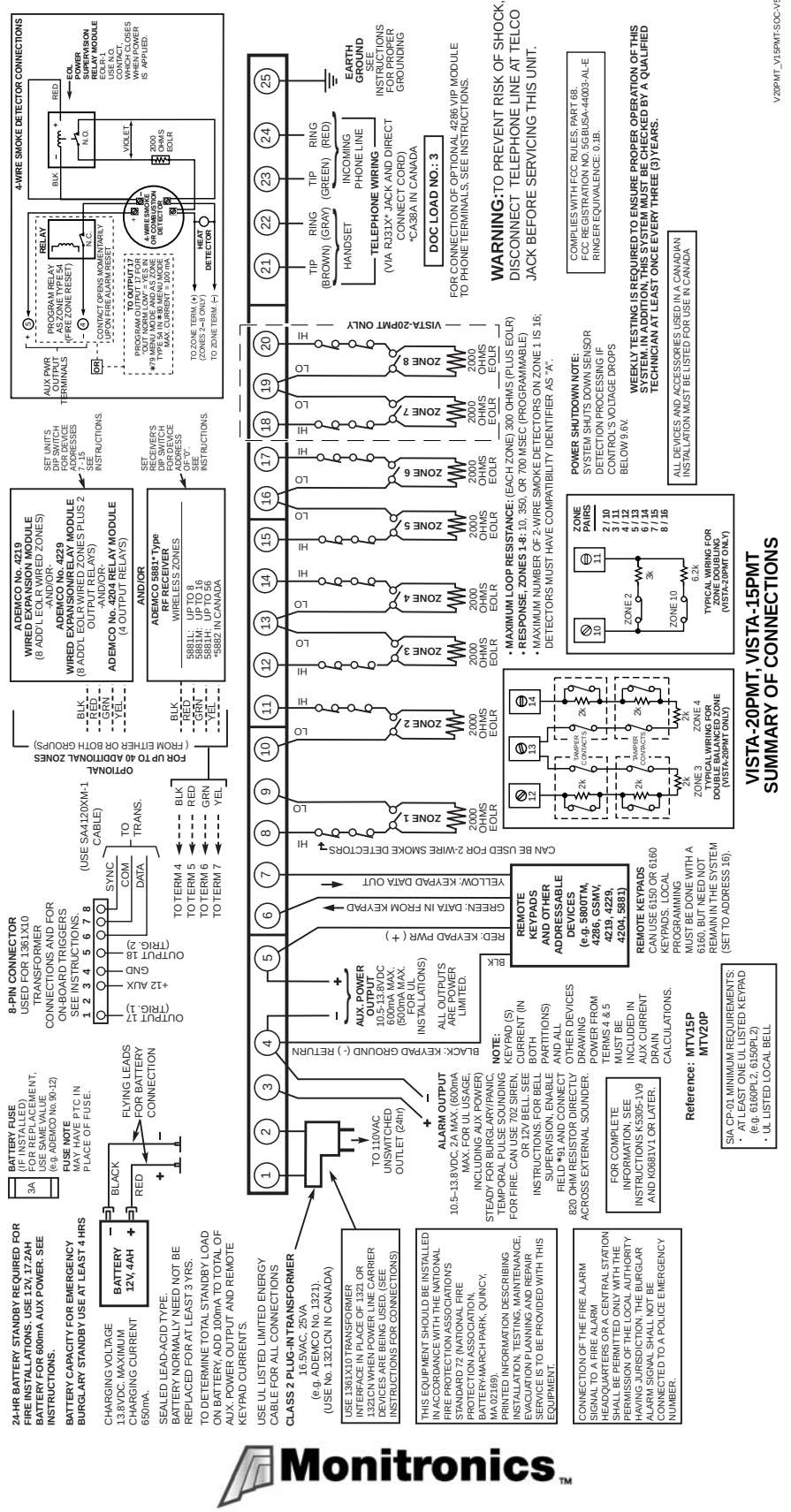
†† Addressable devices are identified by "1" plus the device address when reporting. Enter report code for zone 91 to enable addressable device reporting (default = reports enabled). See field *199 for addressable device (ECP) 3-digit/2-digit identification keypad display options.

5800 SERIES TRANSMITTER INPUT LOOP IDENTIFICATION

All of the transmitters illustrated have one or more unique factory assigned input (loop) ID numbers. Each of the inputs requires its own programming zone (e.g., a 5804's four inputs require four programming zones). For information on any transmitter not shown, refer to the instructions accompanying that transmitter for details regarding loop numbers, etc.

UL NOTE: The following transmitters are not intended for use in UL installations: 5802MN, 5802MN2, 5804, 5804BD, 5814, 5816TEMP, 5819, 5819WHS & BRS, and 5850.
The 5827BD and 5800TM can be used in UL Listed Residential Burglar installations.




VISTA-20PMT, VISTA-15PMT
SUMMARY OF CONNECTIONS
WARNING: TO PREVENT RISK OF SHOCK, DISCONNECT TELEPHONE LINE AT TELCO JACK BEFORE SERVICING THIS UNIT.
24-HR BATTERY STANDBY REQUIRED FOR FIRE INSTALLATIONS, USE 12V, 17.2AH BATTERY FOR 600mA AUX POWER. SEE INSTRUCTIONS.
BATTERY CAPACITY FOR EMERGENCY BURGLARY STANDBY USE AT LEAST 4 HRS
BATTERY 12V, 4AH
CHARGING VOLTAGE 13.8VDC. MAXIMUM CHARGING CURRENT 650mA.
SEALED LEAD-ACID TYPE. BATTERY NORMALLY NEED NOT BE REPLACED FOR AT LEAST 3 YRS.
TO DETERMINE TOTAL STANDBY LOAD ON BATTERY, ADD 100mA TO TOTAL OF AUX-POWER OUTPUT AND REMOTE KEYPAD CURRENTS.
USE UL LISTED LIMITED ENERGY CABLE FOR ALL CONNECTIONS
CLASS 2 PLUG-IN TRANSFORMER 16.5VAC 25VA (e.g. ADEMCO No. 1321). (USE No. 1321CN IN CANADA)
USE 1381X10 TRANSFORMER INTERFACE IN PLACE OF 1321 OR 1321CN WHEN POWER LINE CARRIER DEVICES ARE BEING USED. (SEE INSTRUCTIONS FOR CONNECTIONS)
THIS EQUIPMENT SHOULD BE INSTALLED IN ACCORDANCE WITH THE NATIONAL FIRE PROTECTION ASSOCIATION'S STANDARD 72 (NATIONAL FIRE PROTECTION ASSOCIATION, BATTERYMARCH PARK, QUINCY, MA 02169). PRINTED INFORMATION DESCRIBING INSTALLATION, TESTING, MAINTENANCE, EVACUATION PLANNING AND REPAIR SERVICE IS TO BE PROVIDED WITH THIS EQUIPMENT.
CONNECTION OF THE FIRE ALARM SIGNAL TO A FIRE ALARM HEADQUARTERS OR A CENTRAL STATION SHALL BE PERMITTED ONLY WITH THE PERMISSION OF THE LOCAL AUTHORITY HAVING JURISDICTION. THE BURGLAR ALARM SIGNAL SHALL NOT BE CONNECTED TO A POLICE EMERGENCY NUMBER.
FOR COMPLETE INFORMATION, SEE INSTRUCTIONS K5305-1V9 AND K6681V1 OR LATER.
Reference: MTV15P MTV20P
SIA CP-01 MINIMUM REQUIREMENTS:
• AT LEAST ONE UL LISTED KEYPAD (e.g. 6160PI.2, 6150PI.2)
• UL LISTED LOCAL BELL
BATTERY FUSE (IF INSTALLED) CLASS RATED AS EQUIPMENT; USE SAME VALUE (e.g. ADEMCO No.90-12)
FUSE NOTE MAY HAVE PTC IN PLACE OF FUSE.
FLYING LEADS FOR BATTERY CONNECTION
BLACK
RED
8-PIN CONNECTOR USED FOR 1361X10 TRANSFORMER CONNECTIONS AND FOR ON-BOARD TRIGGERS SEE INSTRUCTIONS.
1 2 3 4 5 6 7 8
OUTPUT 1,2 (TRIG. 1,2)
+12 AUX
GND
OUTPUT 3,4 (TRIG. 3,4)
SYNC
COM
DATA
(USE SA4120XM-1 CABLE)
TO TRANS.
TO TERM 4
TO TERM 5
TO TERM 6
TO TERM 7
BLK
RED
GRN
YEL
OPTIONAL FOR UP TO 40 ADDITIONAL ZONES (FROM EITHER OR BOTH GROUPS)
ADEMCO No. 4219 WIRED EXPANSION MODULE (8 ADD'L EOLR WIRED ZONES) -AND/OR- ADEMCO No. 4229 WIRED EXPANSION/RELAY MODULE (8 ADD'L EOLR WIRED ZONES PLUS 2 OUTPUT RELAYS) -AND/OR- ADEMCO No. 4204 RELAY MODULE (4 OUTPUT RELAYS)
SET UNIT'S DIP SWITCH FOR DEVICE ADDRESSES 1-15 SEE INSTRUCTIONS.
AND/OR ADEMCO 5881* Type RF RECEIVER WIRELESS ZONES
5881L: UP TO 8
5881M: UP TO 16
5881H: UP TO 56
*5882 IN CANADA
SET RECEIVER'S DIP SWITCH FOR DEVICE ADDRESS OF "0". SEE INSTRUCTIONS.
BLK
RED
GRN
YEL
CAN BE USED FOR 2-WIRE SMOKE DETECTORS
ALARM OUTPUT 10.5–13.8VDC, 2A MAX. (600mA MAX. FOR UL USAGE, INCLUDING AUX POWER) STEADY FOR BURGLARY ALARM TEMPORAL PULSE SOUNDING FOR FIRE. CAN USE 702 SIREN OR 12V BELL. SEE INSTRUCTIONS FOR BELL SUPERVISION, ENABLE FIELD *931 AND CONNECT 820 OHM RESISTOR DIRECTLY ACROSS EXTERNAL SOUNDER.
AUX. POWER OUTPUT 10.5-13.8VDC 600mA MAX. (500mA MAX. FOR UL INSTALLATIONS)
ALL OUTPUTS ARE POWER LIMITED.
NOTE: KEYPAD (S) CURRENT (IN BOTH PARTITIONS) AND ALL OTHER DEVICES DRAWING POWER FROM TERMS 4 & 5 MUST BE INCLUDED IN AUX CURRENT DRAIN CALCULATIONS.
BLK
RED: KEYPAD PWR (+)
GREEN: DATA IN FROM KEYPAD
YELLOW: KEYPAD DATA OUT
REMOTE KEYPADS AND OTHER ADDRESSABLE DEVICES (e.g. 5800TM, 4286, GSMV, 4219, 4229, 4204, 5881)
REMOTE KEYPADS CAN USE 6150 OR 6160 KEYPADS. LOCAL PROGRAMMING MUST BE DONE WITH A 6160, BUT NEED NOT REMAIN IN THE SYSTEM (SET TO ADDRESS 16).
ZONE 1
ZONE 2
ZONE 3
ZONE 4
ZONE 5
ZONE 6
ZONE 7
ZONE 8
2000 OHMS EOLR
• MAXIMUM LOOP RESISTANCE: (EACH ZONE) 300 OHMS (PLUS EOLR)
• RESPONSE, ZONES 1-8: 10, 350, OR 700 MSEC (PROGRAMMABLE)
• MAXIMUM NUMBER OF 2-WIRE SMOKE DETECTORS ON ZONE 1 IS 16; DETECTORS MUST HAVE COMPATIBILITY IDENTIFIER AS "A".
TAMPER CONTACTS
2k
ZONE 2
3k
ZONE 10
6.2k
TYPICAL WIRING FOR DOUBLE BALANCED ZONE (VISTA-20PMT ONLY)
ZONE PAIRS
2 / 10
3 / 11
4 / 12
5 / 13
6 / 14
7 / 15
8 / 16
VISTA-20PMT ONLY
TIP (BROWN)
RING (GRAY)
HANDSET
TELEPHONE WIRING (VIA RJ31X* JACK AND DIRECT CONNECT CORD) *CA38A IN CANADA
TIP (GREEN)
RING (RED)
INCOMING PHONE LINE
EARTH GROUND SEE INSTRUCTIONS FOR PROPER GROUNDING
DOC LOAD NO.: 3
FOR CONNECTION OF OPTIONAL 4286 VIP MODULE TO PHONE TERMINALS. SEE INSTRUCTIONS.
POWER SHUTDOWN NOTE: SYSTEM SHUTS DOWN SENSOR DETECTION PROCESSING IF CONTROL'S VOLTAGE DROPS BELOW 9.6V.
WEEKLY TESTING IS REQUIRED TO ENSURE PROPER OPERATION OF THIS SYSTEM. IN ADDITION, THIS SYSTEM MUST BE CHECKED BY A QUALIFIED TECHNICIAN AT LEAST ONCE EVERY THREE (3) YEARS.
ALL DEVICES AND ACCESSORIES USED IN A CANADIAN INSTALLATION MUST BE LISTED FOR USE IN CANADA
COMPLIES WITH FCC RULES, PART 68. FCC REGISTRATION NO. 5GBUSA-44003-AL-E RINGER EQUIVALENCE: 0.1B.
4-WIRE SMOKE DETECTOR CONNECTIONS
BLK
RED
VIOLET
2000 OHMS EOLR
EOL POWER SUPERVISION RELAY MODULE EOLR, INPUT USE N.O. CONTACT WHICH CLOSES WHEN POWER IS APPLIED.
AUX PWR OUTPUT TERMINALS
PROGRAM RELAY AS ZONE TYPE 54 (FIRE ZONE RESET)
CONTACT OPENS MOMENTARILY UPON FIRE ALARM RESET.
OR
PROGRAM OUTPUT 17 FOR FOUR-WIRE SMOKE: TYPE 54 IN *56 MENU MODE *79 MENU MODE, OUTPUT 17 = 100ms
4-WIRE SMOKE DETECTOR
HEAT DETECTOR
TO ZONE TERM. (+) (ZONES 1–8 ONLY)
TO ZONE TERM. (–)
V20PMT_V15PMT-SOC-V5

Monitronics™

12801 North Stemmons Freeway, Suite 821
Dallas, Texas 75234

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